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(54) Title: MOLECULAR TOXICOLOGY MODELING

(57) Abstract: The present invention is based on the elucidation of the global changes in gene expression and the identification of toxicity markers in tissues or cells exposed to a known renal toxin. The genes may be used as toxicity markers in drug screening and toxicity assays. The invention includes a database of genes characterized by toxin-induced differential expression that is designed for use with microarrays and other solid-phase probes.

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## MOLECULAR TOXICOLOGY MODELING

## INVENTORS: Donna MENDRICK, Mark PORTER, Kory JOHNSON, Brandon HIGGS, Arthur CASTLE, and Michael ELASHOFF

#### RELATED APPLICATIONS

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This application claims priority to U.S. Provisional Applications 60/292,335; 60/297,523; 60/298,925; 60/303,810; 60/303,807; 60/303,808; 60/315,047; 60/324,928; 60/330,867; 60/330,462; 60/331,805; 60/336,144; 60/340,873; 60/357,843; 60/357,842; 5 60/357,844; 60/364,134; 60/370,206; 60/370,247; 60/370,144; 60/371,679; and 60/372,794, all of which are herein incorporated by reference in their entirety. This application is also related to U.S. Application Nos. 09/917,800 and 10/060,087, both of which are also herein incorporated by reference in their entirety.

## SEQUENCE LISTING SUBMISSION ON COMPACT DISC

The Sequence Listing submitted concurrently herewith on compact disc is herein incorporated by reference in its entirety. Four copies of the Sequence Listing, one on each of four compact discs are provided. Copy 1, Copy 2 and Copy 3 are identical. Copies 1, 2, and 3 are also identical to the CRF. Each electronic copy of the Sequence Listing was created on May 22, 2002 with a file size of 3088 KB. The file names are as 15 follows: Copy 1- gl5089wo.txt; Copy 2- gl5089wo.txt; CRF- gl5089wo.txt.

#### BACKGROUND OF THE INVENTION

The need for methods of assessing the toxic impact of a compound, pharmaceutical agent or environmental pollutant on a cell or living organism has led to the development of procedures which utilize living organisms as biological monitors. The simplest and most convenient of these systems utilize unicellular microorganisms such as yeast and bacteria, since they are the most easily maintained and manipulated. In addition, unicellular screening systems often use easily detectable changes in phenotype to monitor the effect of test compounds on the cell. Unicellular organisms, however, are inadequate models for estimating the potential effects of many compounds on complex multicellular animals, as they do not have the ability to carry out biotransformations.

The biotransformation of chemical compounds by multicellular organisms is a significant factor in determining the overall toxicity of agents to which they are exposed Accordingly, multicellular screening systems may be preferred or required to detect the

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toxic effects of compounds. The use of multicellular organisms as toxicology screening tools has been significantly hampered, however, by the lack of convenient screening mechanisms or endpoints, such as those available in yeast or bacterial systems.

Additionally, previous attempts to produce toxicology prediction systems have failed to provide the necessary modeling data and statistical information to accurately predict toxic responses (e.g., WO 00/12760, WO 00/47761, WO 00/63435, WO 01/32928, and WO 01/38579).

#### SUMMARY OF THE INVENTION

The present invention is based on the elucidation of the global changes in gene

expression in tissues or cells exposed to known toxins, in particular renal toxins, as

compared to unexposed tissues or cells as well as the identification of individual genes
that are differentially expressed upon toxin exposure.

In various aspects, the invention includes methods of predicting at least one toxic effect of a compound, predicting the progression of a toxic effect of a compound, and predicting the renal toxicity of a compound. The invention also includes methods of identifying agents that modulate the onset or progression of a toxic response. Also provided are methods of predicting the cellular pathways that a compound modulates in a cell. The invention also includes methods of identifying agents that modulate protein activities.

In a further aspect, the invention includes probes comprising sequences that specifically hybridize to genes in Tables 1-5. Also included are solid supports comprising at least two of the previously mentioned probes. The invention also includes a computer system that has a database containing information identifying the expression level in a tissue or cell sample exposed to a renal toxin of a set of genes comprising at least two genes in Tables 1-5.

#### DETAILED DESCRIPTION

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Many biological functions are accomplished by altering the expression of various genes through transcriptional (e.g. through control of initiation, provision of RNA precursors, RNA processing, etc.) and/or translational control. For example, fundamental biological processes such as cell cycle, cell differentiation and cell death, are often characterized by the variations in the expression levels of groups of genes.

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Changes in gene expression are also associated with the effects of various chemicals, drugs, toxins, pharmaceutical agents and pollutants on an organism or cell. For example, the lack of sufficient expression of functional tumor suppressor genes and/or the over expression of oncogene/protooncogenes after exposure to an agent could lead to tumorgenesis or hyperplastic growth of cells (Marshall (1991), Cell 64: 313-326; Weinberg (1991), Science 254: 1138-1146). Thus, changes in the expression levels of particular genes (e.g. oncogenes or tumor suppressors) may serve as signposts for the presence and progression of toxicity or other cellular responses to exposure to a particular compound.

Monitoring changes in gene expression may also provide certain advantages during drug screening and development. Often drugs are screened for the ability to interact with a major target without regard to other effects the drugs have on cells. These cellular effects may cause toxicity in the whole animal, which prevents the development and clinical use of the potential drug.

The present inventors have examined tissue from animals exposed to known renal toxins which induce detrimental kidney effects, to identify global changes in gene expression induced by these compounds. These global changes in gene expression, which can be detected by the production of expression profiles (an expression level of one or more genes), provide useful toxicity markers that can be used to monitor toxicity and/or toxicity progression by a test compound. Some of these markers may also be used to monitor or detect various disease or physiological states, disease progression, drug efficacy, and drug metabolism.

## Identification of Toxicity Markers

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To evaluate and identify gene expression changes that are predictive of toxicity. 25 studies using selected compounds with well characterized toxicity have been conducted by the present inventors to catalogue altered gene expression during exposure in vivo and in vitro. In the present study, cephaloridine, cisplatin, puromycin aminonucleoside (PAN), bromoethylamine hydrobromide (BEA), gentamicin, ifosfamide, cyclophosphamide, carboplatin, AY-25329, indomethacin, acyclovir, citrinin, mercuric chloride, diflunisal, cidofovir, pamidronate, lithium, hydralazine, colchicine, sulfadiazine, and adriamycin were selected as known renal toxins.

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Cephaloridine is an amphoteric, semi-synthetic, broad-spectrum cephalosporin derived from cephalosporin C. Cephalosporins are β-lactam-containing antibiotics which prevent bacterial growth by inhibiting polymerization of the peptidoglycan bacterial cell wall. The linear glycan chains (composed of N-acetylglucosime and N-acetylmuramic acid) are cross-linked to each other by the coupling of short chains of several amino acids, the coupling resulting from the action of a transpeptidase. It is believed that cephalosporins act by blocking the activity of the transpeptidase (Goodman & Gilman's The Pharmalogical Basis of Therapeutics 9<sup>th</sup> ed., J.G. Hardman et al. Eds., McGraw Hill, New York, 1996, pp. 1074-1075, 1089-1095).

Cephaloridine is administered intramuscularly and is used to treat infections of the respiratory tract, gastrointestinal tract and urinary tract, as well as infections of soft tissue, bones and joints. Noted adverse effects include hypersensitivity reactions (such as anaphylactic shock, urticaria and bronchospasm), gastrointestinal disturbances, candidiasis, and cardiovascular and blood toxicity, in particular, toxicity to the hematopoietic system (cells responsible for the formation of red and white blood cells and platelets).

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Although cephaloridine may be nephrotoxic at high dosages, it is not as harmful to the kidneys as are the aminoglycosides and polymixins. High dosages of cephaloridine may cause acute renal tubular necrosis (Cecil Textbook of Medicine, 20<sup>th</sup> ed., part XII, p. 586, J. C. Bennett and F. Plum Eds., W. B. Saunders Co., Philadelphia, 1996) or drug-induced interstitial nephritis, which is accompanied by elevated IgE levels, fever, arthralgia and maculopapular rash. Renal biopsopy demonstrates edema and interstitial inflammatory lesions, mainly with lymphocytes, monocytes, cosinophils and plasma cells. Vasculitis of small vessels may develop, leading to necrotising glomerulonephritis (G. Koren, "The nephrotoxic potential of drugs and chemicals. Pharmacological basis and clinical relevance.," Med Toxicol Adverse Drug Exp 4(1):59-72, 1989).

Cephaloridine has also been shown to reduce mitochondrial respiration and uptake of anionic succinate and carrier-mediated anionic substrate transport (Tune et al. (1990), J Pharmacol Exp Ther 252: 65-69). In a study of oxidative stress and damage to kidney tissue, cephaloridine depleted reduced glutathione (GSH) and produced oxidized glutathione (GSSG) in the renal cortex. This drug also inhibited glutathione reductase

and produced malondialdehyde and conjugated dienes (Tune et al. (1989), Biochem Pharmacol 38: 795-802). Because cephaloridine is actively transported into the proximal renal tubule, but slowly transported across the lumenal membrane into the tubular fluid, high concentrations can accumulate and cause necrosis. Necrosis can be prevented by administering inhibitors of organic anion transport, although such treatment may be counterproductive, as cephaloridine is passed in and out of the kidney by the renal organic anion transport system (Tune et al. (1980), J Pharmacol Exp Ther 215: 186-190).

Cisplatin (Pt (NH<sub>3</sub>)<sub>4</sub>(Cl)<sub>2</sub>), a broad-spectrum anti-tumor agent, is commonly used to treat tumors of the testicles, ovaries, bladder, skin, head and neck, and lungs (<u>PDR 47<sup>th</sup> ed.</u>, pp. 754-757, Medical Economics Co., Inc., Montvale, NJ, 1993; <u>Goodman & Gilman's The Pharmalogical Basis of Therapeutics 9<sup>th</sup> ed.</u>, pp. 1269-1271, J.G. Hardman et al. Eds., McGraw Hill, New York, 1996). Cisplatin diffuses into cells and functions mainly by alkylating the N<sup>7</sup> of guanine, a highly reactive site, causing interstrand and intrastrand crosslinks in the DNA that are lethal to cells. The drug is not sensitive to the cell cycle, although its effects are most pronounced in S phase.

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Because the drug is cleared from the body mainly by the kidneys, the most frequent adverse effect of cisplatin usage is nephrotoxicity, the severity of which increases with increasing dosage and treatment terms. Other adverse effects include renal tubule damage, myelosuppression (reduced numbers of circulating platelets, leukocytes and erythrocytes), nausea and vomiting, ototoxicity, serum electrolyte disturbances (decreased concentrations of magnesium, calcium, sodium, potassium and phosphate, probably resulting from renal tubule damage), increased serum concentrations of urea and creatinine, and perioheral neuronathies.

In one study on rats (Nonclercq et al. (1989), Exp Mol Pathol 51: 123-140) administration of cisplatin or carboplatin induced renal injury, carboplatin causing less damage than cisplatin. The most prominent injury was to the straight portion of proximal renal tubule.

In another rat study (Goldstein et al. (1981), Toxicol Appl Pharmacol 60: 163-30 175) animals injected with cisplatin displayed decreased food intake as drug dosage increased. On day 2, the high-dose groups (10-15 mg/kg) exhibited a six or seven-fold elevation in BUN. On day 4. BUN elevation was noted in the 5mg/kg group. An increase in urine volume was observed beginning on days 3-4, along with decreased urine osmolality in the low-dose groups (2.5 or 5 mg/kg). Another experiment on rats (Agarwal et al. (1995), Kidney Int 48: 1298-1307) showed that cisplatin treatment produced elevations in serum creatinine levels, which began on day 3 and progressed for the duration of the study.

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PAN  $(C_{22}H_{20}N_{7}O_{5})$ , an antibiotic produced by Streptomyces alboniger, inhibits protein synthesis and is commonly used experimentally on rats to mimic human minimal change disease. One study showed that PAN-injected rats demonstrated an increase in levels of serum non-esterified fatty acids, while the serum albumin concentration was negatively affected (Sasaki et al. (1999), Adv Exp Med Biol 467: 341-346).

In another rat study, an adenosine deaminase inhibitor prevented PAN nephrotoxicity, indicating that PAN toxicity is linked to adenosine metabolism (Nosaka et al. (1997), Free Radic Biol Med 22: 597-605). Another group showed that PAN, when administered to rats, led to proteinuria, a condition associated with abnormal amounts of protein in the urine, and renal damage, e.g. blebbing of glomerular epithelial cells, focal separation of cells from the glomerular basement membrane, and fusion of podocytes (Olson et al. (1981), Lab Invest 44: 271-279). In another study on rats, administration of PAN induced glomerular epithelial cell apoptosis in a dose- and time-dependent manner (Sanwal et al. (2001), Exp Mol Pathol 70: 54-64).

One study with PAN-injected rats (Koukouritaki et al. (1998), J Investig Med 46: 284-289) examined the changes in the expression of the proteins paxillin, focal adhesion kinase, and Rho, all of which regulate cell adhesion to the extracellular matrix. Paxillin levels increased steadily, peaked at day 9 after PAN injection, and then remained elevated even after proteinuria resolved. There was no observed change in expression of either focal adhesion kinase or Rho.

BEA, (C<sub>2</sub>H<sub>e</sub>BrN.HBr), is commonly used experimentally on rats to induce papillary necrosis and renal cortex damage, which is similar to human analgesic nephropathy. BEA-induced papillary necrosis in rats eventually leads to the onset of focal glomerular sclerosis and nephrotic proteinuria (Garber et al. (1999), Am J Kidney Dis 33: 1033-1039). Even at low doses (50 mg/kg), BEA can induce an apex limited renal papillary necrosis (Bach et al. (1983), Toxicol Appl Pharmacol 69: 333-344). In male Wistar rats, BEA administered at 100 mg/kg was shown to cause renal papillary

necrosis within 24 hours (Bach et al. (1991), Food Chem Toxicol 29: 211-219).

Additionally, Bach et al. showed that there was an increase in urinary triglycerides, and lipid deposits were seen by Oil Red O lipid staining in the cells of the collecting ducts and hyperplastic urothelia adiacent to the necrosed region.

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It has also been shown that succinate and citrate concentrations are significantly lower in the urine of BEA-treated rats (Holmes et al. (1995), Arch Toxicol 70: 89-95). Moreover, BEA treatment induced glutaric and adipic aciduria, which is symptomatic of an enzyme deficiency in the acyl CoA dehydrogenases. The same study examined urinary taurine levels in desert mice, and in BEA-treated desert mice there was an increase in the urinary taurine level which is indicative of liver toxicity.

Another study on BEA-treated rats showed that there was an increase in the concentrations of creatine in the renal papilla and glutaric acid in the liver, renal cortex, and renal medulla as soon as 6 hours post-treatment (Garrod et al. (2001), Magn Reson Med 45: 781-790).

Discovered and purified in the early 1960's, gentamicin is a broad-spectrum aminoglycoside antibiotic that is cidal to aerobic gram-negative bacteria and commonly used to treat infections, e.g., those of the urinary tract, lungs and meninges. As is typical for an aminoglycoside, the compound is made of two amino sugar rings linked to a central aminocyclitol ring by glycosidic bonds. Aminoglycosides are absorbed poorly with oral administration, but are excreted rapidly by the kidneys. As a result, kidney toxicity is the main adverse effect, although ototoxicity and neuromuscular blockade can also occur. Gentamicin acts by interfering with bacterial protein synthesis. This compound is more potent than most other antibacterial inhibitors of protein synthesis, which are merely bacteriostatic, and its effects on the body are, likewise, more severe (Goodman & Gilman's The Pharmalogical Basis of Therapeutics 9th ed., pp. 1103-1115, J.G. Hardman et al. Eds., McGraw Hill, New York, 1996).

Aminoglycosides work rapidly, and the rate of bacterial killing is concentrationdependent. Residual bactericidal activity remains after serum concentration has fallen below the minimum inhibitory concentration (MIC), with a duration that is also dosage/concentration-dependent. The residual activity allows for once-a-day administration in some patients. These drugs diffuse into bacterial cells through porin channels in the outer membrane and are then transported across the cytoplasmic membrane via a membrane potential that is negative on the inside (Goodman & Gilman, supra).

Kidney damage, which can develop into renal failure, is due to the attack of gentamicin on the proximal convoluted tubule, particularly in the S1 and S2 segments.

The necrosis, however, is often patchy and focal (Shanley et al. (1990), Ren Fail 12: 83-87). A rat study by Shanley et al. showed that superficial nephrons are more susceptible to necrosis than juxtamedullary nephrons, although the initial segment of the superficial nephrons is remarkably resistant to necrosis.

Reported enzymatic changes upon gentamicin treatment are increased activities

of N-acetyl-beta-D-glucosaminidase and alkaline phosphatase and decreased activities of
sphingomyelinase, cathepsin B, Na\*/K\*-ATPase, lactate dehydrogenase and NADPH
cytochrome C reductase, along with decreased protein synthesis and alpha-methylglucose
transport (Monteil et al. (1993), Ren Fail 15: 475-483). An increase in gamma-glutamyl
transpeptidase activity in urine has also been reported (Kocaoglu et al. (1994), Arch

15 Immunol Ther Exp (Warsz) 42: 125-127), and the quantification of this enzyme in urine
is a useful marker for monitoring centamicin toxicity.

One source of renal pathology resulting from gentamic in treatment is the generation of reactive oxygen metabolites. Gentamic in has been shown, both in vitro and in vivo, to be capable of enhancing the production of reactive oxygen species. Iron, a necessary co-factor that catalyzes free-radical formation, is supplied by cytochrome P450 (Baliga et al. (1999), Drug Metab Rev 31: 971-997).

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A gene delivery experiment in rats, in which the human kallikrein gene was cloned into an adenovirus vector and the construct then co-administered with a gentamicin preparation, showed that kallikrein can protect against gentamicin-induced nephrotoxicity. Significantly increased renal blood flow, glomerular filtration rates and urine flow were observed, along with decreased renal tubular damage, cellular necrosis and lumenal protein casts. Kallikrein gene delivery also caused a decrease in blood urea nitrogen levels and increases in urinary kinin and nitrite/nitrate levels. This study provides evidence that the tissue kallikrein-kinin system may be a key pathway that is perturbed during the induction of nephrotoxicity by gentamicin (Murakami et al. (1998), Kidnev Int 53: 1305-1313).

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Ifosfamide, an alkylating agent, is commonly used in chemotherapy to treat testicular, cervical, and lung cancer. Ifosfamide is slowly activated in the liver by hydroxylation, forming the triazene derivative 5-(3,3-dimethyl-1-triazeno)-imidazole-4-carboxamide (DTIC) (Goodman & Gilman's The Pharmacological Basis of Therapeutics 5 9<sup>th</sup> ed., p. 1235, J.G. Hardman et al., Eds., McGraw Hill, New York, 1996). Cytochrome P450 activates DTIC via an N-demethylation reaction yielding an alkylating moiety, diazomethane. The active metabolites are then able to cross-link DNA causing growth arrest and cell death. Though ifosfamide is therapeutically useful, it is also associated with nephrotoxicity, urotoxicity, and central neurotoxicity.

Mesna, another therapeutic, is often administered concomitantly to prevent kidney and bladder problems from arising (Brock and Pohl (1986), IARC Sci Publ 78: 269-279). However, there are documented cases in which tubular toxicity occurred and elevated urinary levels of alanine aminopeptidase and N-acetyl-beta-D-glucosaminidase were found in patients even though mesna was administered alongside ifosfamide (Goren et al. (1987). Cancer Treat Rep 71: 127-130).

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One study examined 42 patients that had been administered ifosfamide to treat advanced soft-tissue sarcoma (Stuart-Harris et al. (1983), Cancer Chemother Pharmacol 11: 69-72). The ifosfamide dosage varied from 5.0 g/m² to 8.0 g/m², and all of the patients were given mesna to counteract the negative effects of ifosfamide. Even so, nausea and vomiting were common to all of the patients. Out of the 42 patients, seven developed nephrotoxicity, and two of the cases progressed to fatal renal failure.

In another clinical study, renal tubular function was monitored in 18 neuroblastoma patients (Caron et al. (1992), Med Pediatr Oncol 20: 42-47). Tubular toxicity occurred in at least 12 of the patients, and seven of those patients eventually developed Debre-de Toni-Fanconi syndrome, although in 3 cases the syndrome was reversible.

Fanconi syndrome is a disorder marked by dysfunction of the proximal tubules of the kidney. It is associated with aminoaciduria, renal glycosuria, and hyperphosphaturia. Ifosfamide is often used experimentally on rats to induce Fanconi syndrome. In one study, rats that were administered 80 mg/kg of ifosfamide had significantly lower body weight and hematocrit than control rats (Springate and Van Liew (1995), *J Appl Toxicol* 15: 399-402). Additionally, the rats had low-grade glucosuria, proteinuria, and

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phosphaturia. In a mouse study, ifosfamide induced elevated serum creatinine and urea levels and decreased the clearance rate of creatinine (Badary (1999), *J Ethnopharmacol* 67: 135-142).

Cyclophosphamide, a nitrogen mustard and alkylating agent, is highly toxic to dividing cells and is commonly used in chemotherapy to treat malignant lymphomas, 5 such as non-Hodgkin's lymphomas and Burkitt's lymphoma, multiple myeloma, leukemias, neuroblastomas, ovarian adenocarcinomas and retinoblastomas, as well as breast and lung cancer (Goodman & Gilman's The Pharmacological Basis of Therapeutics 9th ed., pp.1234, 1237-1239, J.G. Hardman et al., eds., McGraw Hill, New 10 York, 1996; Physicians Desk Reference, 47th ed., pp. 744-745, Medical Economics Co., Inc., Montvale, NJ, 1993). Additionally, cyclophosphamide is used as an immunosuppressive agent in bone marrow transplantation and following organ transplantation. Although cyclophosphamide is therapeutically useful against certain types of cancer, it is also associated with cardiotoxicity, nephrotoxicity (including renal 15 tubular necrosis), hemorrhagic cystitis, myelosuppression, hepatotoxicity, impairment of male and female reproductive systems, interstitial pneumonitis and central nervous system toxicity.

Once in the liver, cyclophosphamide is hydroxylated by the cytochrome P450 mixed function oxidase system, producing the active metabolites phosphoramide mustard and acrolein, which cross-link DNA and cause growth arrest and cell death. These metabolites, however, are highly toxic and cause adverse effects in the other organs into which they are transported, such as the kidneys. Acrolein is removed from the kidneys by secretion into the urine, resulting in cystitis (inflammation of the bladder), often hemorrhagic cystitis.

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In the kidney, cyclophosphamide induces necrosis of the renal distal tubule.

Cyclophosphamide, which is structurally similar to the anti-cancer drug ifosfamide, does not induce damage to the renal proximal tubule nor does it induce Debre-de Toni-Fanconi syndrome (Rossi et al. (1997), Nephrol Dial Transplant 12: 1091-1092).

One clinical trial of patients being treated with cyclophosphamide showed that renal damage from the drug leads to a reduced biotransformation rate and low renal clearance of the drug, resulting in a build-up of toxic alkylating metabolic products (Wagner et al. (1980), Arzneimittelforschung 30: 1588-1592).

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In a study of patients suffering from malignant lymphomas and mammary carcinomas, a direct relationship was found between the dose of cyclophosphamide used in treatment and the concentration of alkylating metabolites in the patients' urine. The upper limit of the dose was determined by the nature and degree of the toxic side effects, rather than by the rate at which the drug could be metabolized (Saul et al. (1979). J Cancer Res Clin Oncol 94: 277-286). It is the acrolein itself that is toxic, not the alkylating activity of cyclophosphamide (Brock et al. (1979), Arzneimittelforschung 29: 659-661). A study on rats also showed that acrolein from the kidneys can produce hemorrhagic cystitis and that the acrolein concentration is directly related to the 10 frequency and severity of the cystitis (Chijiwa et al. (1983), Cancer Res 43: 5205-5209).

Carboplatin, a platinum coordination complex, is commonly used in chemotherapy as an anti-tumor agent. As a chemotherapeutic agent, carboplatin acts similarly to cisplatin. Carboplatin enters the cell by diffusion where it is activated by hydrolysis (Goodman & Gilman's The Pharmacological Basis of Therapeutics 9th ed., p. 1270-1271, J.G. Hardman et al. Eds., McGraw Hill, New York 1996). Once activated. the platinum complexes are able to react with DNA causing cross-linking to occur. One of the differences between carboplatin and cisplatin is that carboplatin is better tolerated clinically. Some of the side-effects associated with cisplatin, such as nausea, neurotoxicity, and nephrotoxicity, are seen at a lesser degree in patients administered 20 carboplatin. Some other side-effects are hypomagnesaemia and hypokalaemia (Kintzel (2001), Drug Saf 24: 19-38).

In one study on male Wistar rats, carboplatin was administered at a dosage of 65mg/kg (Wolfgang et al. (1994), Fundam Appl Toxicol 22: 73-79). After treatment with carboplatin, CGT excretion was increased approximately two-fold.

Another study compared cisplatin and carboplatin when given in combination with vindesine and mitomycin C (Jelic et al. (2001) Lung Cancer 34: 1-13). The study showed that carboplatin administered with vindesine and mitomycin C was advantageous in terms of overall survival, although the regimen was more hematologically toxic than when cisplatin was given.

AY-25329, is a phenothiazine that has been shown to be mildly hepatotoxic and to induce nephrosis. Its structure is shown below.

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Phenothiazines are a class of psychoactive drugs. They have been used to treat schizophrenia, paranoia, mania, hyperactivity in children, some forms of senility, and anxiety (http://www.encyclopedia.com/articlesnew/ 36591.html). Some side effects associated with prolonged use of the drugs are reduced blood pressure, Parkinsonism, reduction of motor activity, and visual impairment.

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Chlorpromazine (Thorazine or Largactil) is an aliphatic phenothiazine and is widely used for treating schizophrenia and manic depression. Prolactin secretion is increased while taking chlorpromazine, and galactorrhea and gynecomastia have both been associated with the drug (http://www.mentalhealth.com/drug/p30-c01.html). Trifluoperazine is another prescribed phenothiazine. It is used to treat anxiety, to prevent nausea and vomiting, and to manage psychotic disorders (http://www.mentalhealth.com/drug/p30-s04.html). Negative side-effects that have been associated with the drug are liver damage, bone marrow depression, and Parkinsonism.

Acyclovir (9-[(2-hydroxyethyl) methyl] guanine, Zovirax®), an anti-viral guanosine analogue, is used to treat herpes simplex virus (HSV), varicella zoster virus (VZV) and Epstein-Barr virus (EBV) infections. It is transported into cells by the nucleoside transporter that imports guanine, and acyclovir is phosphorylated by virally encoded thymidine kinase (TK). Other kinases convert acyclovir to its activated di- and triphosphate forms, which prevent the polymerization of viral DNA. Acyclovir triphosphate competes with dGTP for the viral polymerase, and acyclovir is preferentially incorporated, but as a monophosphate. As a result, chain elongation ceases (Fields Virology 3<sup>th</sup> ed., Fields et al., eds., pp. 436-440, Lippincott-Raven Publishers, Philadelphia, 1996; Cecil Textbook of Medicine, 20<sup>th</sup> ed., part XII, p. 1742, J. C. Bennett and F. Plum Eds., W. B. Saunders Co., Philadelphia, 1996).

The pharmacokinetics of acyclovir show that it has a useful half-life of about three hours and that most of it is excreted in the urine largely unchanged (Brigden et al. (1985), Scand J Infect Dis Suppl 47: 33-39). Not surprisingly, the most frequent adverse

effect of acyclovir treatment is damage to various parts of the kidney, particularly the renal tubules. Crystalluria, or the precipitation of crystals (in this case, crystals of acyclovir), in the lumina of the renal tubules can occur (Fogazzi (1996), Nephrol Dial Transplant 11: 379-387). If the drug crystallizes in the renal collecting tubules, obstructive nephropathy and tubular necrosis can result (Richardson (2000), Vet Hum Toxicol 42: 370-371). Tissues from biopsies of affected patients showed dilation of the proximal and distal renal tubules, with loss of the brush border, flattening of the lining cells and focal nuclear loss (Becker et al. (1993), Am J Kidney Dis 22: 611-615).

Citrinin, a mycotoxin produced by the fungus Penicillium citrinum, is a natural contaminant of foods and feeds (Bondy and Armstrong (1998) Cell Biol. Toxicol. 14: 323-332). It is known that mycotoxins can have negative effects on the immune system, however citrinin-treated animals have been shown to stimulate responses against antigens (Sharma (1993) J. Dairy Sci. 76: 892-897). Citrinin is a known nephrotoxin, and in birds such as chickens, ducklings, and turkeys, it causes diarrhea, increased food consumption and reduced weight gain due to kidney degeneration (Mehdi et al. (1981) Food Cosmet. Toxicol. 19: 723-733; Mehdi et al. (1984) Vet. Pathol. 21: 216-223). In the turkey and duckling study, both species exhibited nephrosis with the occurrence of hepatic and lymphoid lesions (Mehdi et al., 1984).

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In one study, citrinin was administered to rabbits as a single oral dose of either 120 or 67 mg/kg (Hanika et al. (1986) Vet. Pathol. 23: 245-253). Rabbits treated with citrinin exhibited renal alterations such as condensed and distorted mitochondria, distended intercellular spaces of the medullary and straight cortical distal tubules, and disorganization of interdigitating processes. In another rabbit study, citrininadministered rabbits displayed azotaemia and metabolic acidosis (Hanika et al. (1984) Food Chem. Toxicol. 22: 999-1008). Renal failure was indicated by decreased creatinine clearance and increased blood urea nitrogen and serum-creatinine levels.

In the past, mercury was an important component of pharmaceuticals, particularly of antiseptics, antibacterials, skin ointments, diuretics and laxatives. Although, mercury has been largely replaced by more effective, more specific and safer compounds, making drug-induced mercury poisoning rare, it is still widely used in industry. Poisoning from occupational exposure and environmental pollution, such as mercury release into public water supplies, remains a concern as wildlife, domestic animals and humans are affected.

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Because of their lipid solubility and ability to cross the blood-brain barrier, the most dangerous form of mercury is the organomercurials, the most common of which is methylmercury, a fungicide used for disinfecting crop seeds. In a number of countries, incidents involving large-scale illness and death from mercury poisoning have been reported when mercury-contaminated seeds were planted and the crops harvested and consumed. A second source of organic mercury poisoning results from industrial chemicals containing inorganic mercury, such as mercury catalysts, which form methylmercury as a reaction product. If this waste product is released into reservoirs, lakes, rivers or bays, the surrounding population can become sick or die, particularly those who eat local fish.

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The inorganic salt mercuric chloride, HgCl<sub>2</sub>, as well as other mercuric salts, are more irritating and more toxic than the mercurous forms. Mercuric chloride is used today in industry, for the manufacture of bleach, electronics, plastics, fungicides and dental amalgams. The main source of human exposure is industrial dumping into rivers (Goodman & Gilman's: The Pharmacological Basis of Therapeutics (9th ed.), pp. 1654-1659. McGraw-Hill, New York, 1996).

When inorganic mercury salts are ingested, about 10% of the mercuric ions are absorbed by the gastrointenstinal tract, and a considerable portion of the Hg<sup>2+</sup> can remain bound to the mucosal surfaces. The highest concentration of Hg<sup>2+</sup> is found in the kidneys, as it is retained there longer than in other tissues. Consequently, the kidneys are the organ most adversely affected by inorganic mercury poisoning. The proximal tubules are the major site of damage, where tubular necrosis results. The mercury affects primarily the S2 and S3 portions of the proximal tubules, but, at high levels of mercury exposure, the S1 and distal portions of the tubules are also damaged. These regions of the nephrons are affected because they contain enzymes (such as gamma-glutamyltranspeptidase) and transport proteins (such as the basolateral organic anion transport system) involved in mercury uptake (Diamond et al. (1998), Toxicol Pathol 26: 92-103).

Urinary markers of mercury toxicity which can be detected in NMR spectra include elevated levels of lactate, acetate and taurine and decreased levels of hippurate (Holmes et al. (2000), Chem Res Toxicol 13: 471-478). Known changes in gene expression in kidneys exposed to Hg<sup>2+</sup> include up-regulation of the heat-shock protein

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hsp72 and of the glucose-regulated protein grp94. The degree of tissue necrosis and level of expression of these proteins is proportional to both the dose of mercury (Hg²¹) and the length of the exposure time to mercury (Hg²¹), with hsp72 accumulating in the renal cortex and grp94 accumulating in the renal medulla (Goering et al. (2000), Toxicol

Sci 53: 447-457).

Diflunisal, a non-steroidal anti-inflammatory drug (NSAID), is a difluorophenyl derivative of salicylic acid (Goodman & Gilman's The Pharmacological Basis of Therapeutics 9th ed., p. 631, J.G. Hardman et al., Eds., McGraw Hill, New York, 1996). It is most frequently used in the treatment of osteoarthritis and musculoskeletal strains. NSAIDs have analgesic, antipyretic and anti-inflammatory actions, however hepatotoxicity is known to be an adverse side effect of NSAID treatment (Masubuchi et al. (1998) J. Pharmacol. Exp. Ther. 287: 208-213). Diflunisal has been shown to be less toxic than other NSAIDs, nevertheless over long periods of dosage it can lead to deleterious effects on platelet or kidney function (Bergamo et al. (1989) Am. J. Nephrol. 9: 460-463). Other side effects that have been associated with diflunisal treatment are diarrhea, dizziness, drowsiness, gas or heartburn, headache, nausea, vomiting, and insomnia (http://arthrittsinsight.com/medical/ meds/dolobid.html).

Masubuchi et al. compared the hepatotoxicity of 18 acidic NSAIDs. In the study, diffunisal (administered at a concentration of 500  $\mu$ M) was shown to increase LDH leakage in rat hepatocytes, a marker for cell injury, when compared to the control sample. In addition, treatment with diffunisal led to decreased intracellular ATP concentrations.

One study compared the effects of diflunisal and ibuprofen when given to patients over a two week period (Muncie and Nasrallah (1989) Clin. Ther. 11: 539-544). In both the ibuprofen and the diflunisal group, two patients complained of abdominal cramping. The study indicated that even during short-term usage some gastrointestinal effects may occur. The toxic dose used in this study was chosen as one that did not induce significant gastric ulceration in rats. The group of rats given the high dosage of diflunisal had increased concentrations of creatinine which is consistent with renal injury, although dehydration may also cause increases in creatinine concentration.

Cidofovir (Vistide®) is an antiviral cytosine analog used in the treatment of viral infections such as herpesvirus, adenovirus, papillomavirus, poxvirus and hepadnavirus

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(Goodman & Gilman's The Pharmacological Basis of Therapeutics 9th ed., p. 1216, J.G. Hardman et al., Eds., McGraw Hill, New York, 1996). It is also useful for the treatment of cytomegalovirus (CMV) infection, which is a type of herpesyirus.

Some mild side effects seen in patients receiving cidofovir are nausea, vomiting, and fever. The most serious reported side effect of the drug is kidney toxicity (http://tthivclinic.com/cido.html). In response to the threat of nephrotoxicity, it is necessary for patients receiving cidofovir to have their kidneys checked before treatment, and the patients must be monitored during treatment for early symptoms of kidney problems. In addition, cidofovir is given with fluids to help reduce the risk of kidney toxicity (http://www.aidsinfonyc.org/ network/simple/cido.html). Probenecid, a drug that helps protect the kidneys, is normally administered concomitantly (Lalezari and Kuppermann (1997) J. Acquir. Immune Defic. Syndr. Hum. Retrovirol. 14: \$27-31).

One study compared the safety and efficacy of cidofovir in the treatment of CMV (Lalezari et al. (1998) J. Acquir. Immune Defic. Syndr. Hum. Retrovirol. 17: 339-344). Approximately 40% of the patients exhibited dose-dependent asymptomatic proteinuria and 25% of the patients had elevated serum creatinine levels.

Pamidronate (Aredia®) is a bisphosphonate drug that is clinically used to inhibit bone resorption and make bones more stable. It is used to treat hypercalcemia (too much calcium in the blood) that occurs with some types of cancer. Typically administered by intravenous injection, pamidronate is frequently used in patients with breast cancer or multiple myeloma whose disease has spread to the bones. Some side effects related to pamidronate treatment are abdominal cramps, chills, confusion, fever, muscle spasms, nausea, muscle stiffness, and swelling at the injection site (http://www.nursing.uiowa.edu/sites/PedsPain/Adjuvants/PAMIDRnt.html). Patients with kidney problems may be prohibited from using pamidronate as it is excreted through the kidneys.

In one study, rats and mice were given varying doses of labeled pamidronate (Cal and Daley-Yates (1990) *Toxicology* 65: 179-197). Pamidronate treatment led to significant weight loss and a decrease in creatinine clearance. Morphological studies showed a loss of brush border membranes and the presence of focal proximal tubular necrosis.

Another study compared the tolerability of different treatments for hypercalcemia of malignancy by reviewing articles published between 1979 and 1998 (Zojer et al.

(1999) Drug Saf. 21: 389-406). The authors found that elevated serum creatinine level, nausea, and fever were reported following treatment with bisphosphonates such as pamidronate.

Markowitz et al. (2001, J. Am. Soc. Nephrol. 12: 1164-1172) tried to determine

whether there was a correlation between pamidronate treatment and collapsing focal
segmental glomerulosclerosis (FSGS). The authors examined the histories of seven
patients who had developed collapsing FSGS, and they found that the only drug
treatment in common was the administration of pamidronate. When given at the
recommended dose of 90 mg per month, renal toxicity was rare. However, when

pamidronate was given at higher doses nephrotoxicity occurred.

Lithium, an alkali metal, is the main pharmacological treatment for bipolar disorders. It is typically given as a salt, such as lithium carbonate or lithium citrate. Some common side effects of lithium treatment are an increase in urination, increase in drinking, dry mouth, weight gain, fine tremor, and fatigue. Some more serious side effects related to lithium treatment are blurred vision, mental confusion, seizures, vomiting, diarrhea, muscle weakness, drowsiness, and coarse tremor (Goodman & Gilman's The Pharmacological Basis of Therapeutics 9<sup>th</sup> ed., p. 448, J.G. Hardman et al., Eds., McGraw Hill, New York, 1996).

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Since lithium is often used on a maintenance basis for a lifelong period, numerous studies have been performed to try and elucidate the effects of lithium on the kidney. One group administered lithium in daily doses within the human therapeutic range to male Wistar rats (Kling et al. (1984) Lab Invest 50: 526-535). Rats that were given lithium developed marked polyuria within three weeks of the initial dosing. The rats displayed elevated free water clearance and vasopressin-resistant diabetes insipidus. The cortical collecting tubules displayed morphological changes, e.g. dilation of the tubules, bulging cells lining the tubules, enlarged nuclei, following lithium treatment.

Another study examined a human population that had been given lithium for the treatment of bipolar disorder (Markowitz et al. (2000) J. Am. Soc. Nephrol. 11: 1439-1448). The patients had a mean age of 42.5 years and had been undergoing lithium treatment from 2 to 25 years (mean of 13.6 years). Approximately one fourth of the patients had nephrotic proteinuria, almost 90% of them had nephrogenic diabetes insipidus (NDI), and renal biopsies revealed a chronic tubulointerstitial nephropathy in

all of the patients. Following cessation of lithium treatment, seven of the patients proceeded to end-stage renal disease.

Even though nephrotoxicity is a known side effect of lithium treatment, some studies have indicated that in actuality it is not all that common (Johnson (1998) 5 Neuropsychopharmacology 19: 200-205). One study showed that the NDI-like effect in lithium treatment was easily overcome by increasing the levels of arginine vasopressin (AVP) (Carney et al. (1996) Kidney Int 50: 377-383). Other studies have suggested that patients with psychiatric disorders display certain defects in renal function without undergoing lithium treatment (Gitlin (1999) Drug Saf 20: 231-243).

Hydralazine, an antihypertensive drug, causes relaxation of arteriolar smooth muscle. Such vasodilation is linked to vigorous stimulation of the sympathetic nervous system, which in turn leads to increased heart rate and contractility, increased plasma renin activity, and fluid retention (<u>Goodman & Gilman's The Pharmacological Basis of Therapeutics 9<sup>th</sup> ed.</u>, p. 794, J.G. Hardman et al., Eds., McGraw Hill, New York, 1996). The increased renin activity leads to an increase in angiotensin II, which in turn causes stimulation of aldosterone and sodium reabsorption.

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Hydralazine is used for the treatment of high blood pressure (hypertension) and for the treatment of pregnant women suffering from high blood pressure (pre-eclampsia or eclampsia). Some common side effects associated with hydralazine use are diarrhea, rapid heartbeat, headache, decreased appetite, and nausea. Hydralazine is often used concomitantly with drugs that inhibit sympathetic activity to combat the mild pulmonary hypertension that can be associated with hydralazine usage.

In one hydralazine study, rats were fed hydralazine and mineral metabolism was monitored (Peters et al. (1988) Toxicol Lett 41: 193-202). Manganese and zinc concentrations were not effected by hydralazine treatment, however tissue iron concentrations were decreased and kidney copper concentrations were increased compared to control groups.

Another study compared the effects of hydrazine, phenelzine, and hydralazine treatment on rats (Runge-Morris et al. (1996) Drug Metab Dispos 24: 734-737).

Hydralazine caused an increase in renal GST-alpha subunit expression, although unlike hydrazine and phenelzine it did not alter renal cytochrome P4502E1 expression.

Colchicine, an alkoloid of Colchicum autumale, is an antiinflammatory agent used in the treatment of gouty arthritis (Goodman & Gilman's The Pharmacological Basis of Therapeutics 9th ed., p. 647, J.G. Hardman et al., Eds., McGraw Hill, New York, 1996).

An antimitotic agent, colchicine binds to tubulin which leads to depolymerization and disappearance of the fibrillar microtubules in granulocytes and other motile cells. In doing so, the migration of granulocytes into the inflamed area is inhibited. Through a series of events, the inflammatory response is blocked.

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Some common, mild side effects associated with colchicine treatment are loss of appetite and hair loss. More severe side effects that warrant cessation of treatment are nausea, vomiting, diarrhea, and abdominal pain. Colchicine overdose can induce multiorgan failure with a high incidence of mortality. In this setting, renal failure is multifactorial and related to prolonged hypotension, hypoxemia, sepsis, and rhabdomyolysis. In rats, less dramatic doses have been shown to inhibit the secretion of many endogenous proteins such as insulin and parathyroid hormone.

One study investigated the effects of colchicine on microtubule polymerization status and post-translational modifications of tubulin in rat seminiferous tubules (Correa and Miller (2001) Biol Reprod 64: 1644-1652). Colchicine caused extensive microtubule depolymerization, and total tubulin levels decreased twofold after colchicine treatment. The authors also found that colchicine treatment led to a decrease in tyrosination of the microtubule pool of tubulin which was associated with depolymerization of microtubules.

Sulfadiazine, a sulfonamide, is an antimicrobial agent. It is commonly used concomitantly with pyrimethamine to treat toxoplasmosis, an infection of the brain, in patient suffering from AIDS. These drugs are able to cross the blood-brain barrier and are used at relatively high doses. In addition, sulfadiazine has been shown to be effective at preventing certain types of meningococcal diseases and in treating urinary tract infections.

Sulfonamides in general are structural analogs of para-aminobenzoic acid

(PABA). Because they are competitive antagonists of PABA, sulfonamides are effective
against bacteria that are required to utilize PABA for the synthesis of folic acid

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(Goodman & Gilman's The Pharmacological Basis of Therapeutics 9th ed., p. 1058-1060, J.G. Hardman et al., Eds., McGraw Hill, New York, 1996).

The main side effects associated with sulfadiazine treatment are fever and skin rashes. Decreases in white blood cells, red blood cells, and platelets, nausea, vomiting, and diarrhea are some other side effects that may result from sulfadiazine treatment. The most troublesome problem with this drug for HIV/AIDS patients is kidney toxicity. These patients tend to use these drugs for extended periods of time, which puts a constant strain on the kidneys. In addition, kidney stones tend to form in the bladder and ureter thereby blocking the flow of urine. Kidney damage may result, and if left untreated kidney failure may occur. Therefore, patients being treated with sulfadiazine are instructed to increase their fluid intake in order to prevent crystal formation in the kidneys.

One case study examined four HIV-positive patients who had been given sulfadiazine to treat toxoplasmosis (Crespo et al. (2000) Clin Nephrol 54: 68-72). All four of the patients, one of whom was a previously healthy person, developed oliguria, abdominal pain, renal failure, and displayed multiple radiolucent renal calculi in echography. Following extensive hydration and alcalinization, the renal function of the patients returned to normal.

Adriamycin, known generically as doxorubicin, is an anthracycline antibiotic produced by the fungus Streptomyces peucetius. It is an anti-tumor drug used in the treatment of breast, ovarian, bladder, and lung cancers as well as non-Hodgkin's lymphoma, Hodgkin's disease and sarcoma (Goodman & Gilman's The Pharmacological Basis of Therapeutics 9th ed., p. 1264-1265, J.G. Hardman et al., Eds., McGraw Hill, New York, 1996).

Adriamycin has tetracycline ring structures with the sugar daunosamine attached by glycosidic linkage. It is able to intercalate with DNA, it affects DNA and RNA synthesis, and it can interact with cell membranes and alter their functions. Typically the drug is cell-cycle specific for the S phase of cell division. By binding to the cancer cells' DNA and blocking topoisomerase II, cancer cells are unable to divide and grow.

Some common side effects associated with adriamycin treatment are fatigue, a drop in white blood cell, red blood cell, or platelet count, hair loss, skin discoloration, and watery eyes (www.cancerhelp.org.uk/help/default.asp?page=4025). More serious

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side effects include myocardial toxicity, ulceration and necrosis of the colon, and development of a second cancer.

Because of its utility in fighting cancer, numerous studies have been performed in attempts to further understand the mechanisms and effects of adriamycin. In one study, investigators injected mice with a single dose of adriamycin (Chen et al. (1998) Nephron 78: 440-452). The mice exhibited signs of combined glomerular albuminuria and immunoglublinuria, progressively elevated levels of nitrite/nitrate in the urine, abnormal renal function, and other symptoms indicative of focal segmental glomerulosclerosis.

In another study, rats were given adriamycin and the effects on angiotensin converting enzyme (ACE) were monitored (Venkatesan et al. (1993) Toxicology 85: 137-148). The rats developed glomerular and tubular injury, and serum ACE levels were significantly elevated 20, 25, and 30 days post-treatment. A different study followed rabbits for up to one year that were treated with either adriamycin, nephrectomy, or combinations thereof (Gadeholt-Gothlin et al. (1995) Urol Res 23: 169-173). The rabbits that were treated with adriamycin exhibited signs of nephrotoxicity at relatively low doses

## Toxicity Prediction and Modeling

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The genes and gene expression information, gene expression profiles, as well as the portfolios and subsets of the genes provided in Tables 1-5, may be used to predict at 20 least one toxic effect, including the nephrotoxicity of a test or unknown compound. As used, herein, at least one toxic effect includes, but is not limited to, a detrimental change in the physiological status of a cell or organism. The response may be, but is not required to be, associated with a particular pathology, such as tissue necrosis. Accordingly, the toxic effect includes effects at the molecular and cellular level. Nephrotoxicity is an effect as used herein and includes but is not limited to the 25 pathologies of nephritis, kidney necrosis, glomerular and tubular injury, and focal segmental glomerulosclerosis. As used herein, a gene expression profile comprises any quantitative representation of the expression of at least one mRNA species in a cell sample or population and includes profiles made by various methods such as differential 30 display, PCR, hybridization analysis, etc.

In general, assays to predict the toxicity or nephrotoxicity of a test agent (or compound or multi-component composition) comprise the steps of exposing a cell population to the test compound, assaying or measuring the level of relative or absolute gene expression of one or more of the genes in Tables 1-5 and comparing the identified expression level(s) to the expression levels disclosed in the Tables and database(s) disclosed herein. Assays may include the measurement of the expression levels of about 2, 3, 4, 5, 6, 7, 8, 9, 10, 15, 20, 25, 30, 50, 75, 100 or more genes from Tables 1-5.

In the methods of the invention, the gene expression level for a gene or genes induced by the test agent, compound or compositions may be comparable to the levels found in the Tables or databases disclosed herein if the expression level varies within a factor of about 2, about 1.5 or about 1.0 fold. In some cases, the expression levels are comparable if the agent induces a change in the expression of a gene in the same direction (e.g., up or down) as a reference toxin.

The cell population that is exposed to the test agent, compound or composition may be exposed in vitro or in vivo. For instance, cultured or freshly isolated renal cells, in particular rat renal cells, may be exposed to the agent under standard laboratory and cell culture conditions. In another assay format, in vivo exposure may be accomplished by administration of the agent to a living animal, for instance a laboratory rat.

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Procedures for designing and conducting toxicity tests in *in vitro* and *in vivo*systems are well known, and are described in many texts on the subject, such as Loomis
et al., Loomis's Esstentials of Toxicology, 4th Ed., Academic Press, New York, 1996;

Echobichon, The Basics of Toxicity Testing, CRC Press, Boca Raton, 1992; Frazier,
editor, In Vitro Toxicity Testing, Marcel Dekker, New York, 1992; and the like.

In in vitro toxicity testing, two groups of test organisms are usually employed:

One group serves as a control and the other group receives the test compound in a single dose (for acute toxicity tests) or a regimen of doses (for prolonged or chronic toxicity tests). Because, in some cases, the extraction of tissue as called for in the methods of the invention requires sacrificing the test animal, both the control group and the group receiving compound must be large enough to permit removal of animals for sampling tissues, if it is desired to observe the dynamics of gene expression through the duration of an experiment.

In setting up a toxicity study, extensive guidance is provided in the literature for selecting the appropriate test organism for the compound being tested, route of administration. dose ranges, and the like. Water or physiological saline (0.9% NaCl in

water) is the solute of choice for the test compound since these solvents permit administration by a variety of routes. When this is not possible because of solubility limitations, vegetable oils such as com oil or organic solvents such as propylene glycol may be used.

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Regardless of the route of administration, the volume required to administer a given dose is limited by the size of the animal that is used. It is desirable to keep the volume of each dose uniform within and between groups of animals. When rats or mice are used, the volume administered by the oral route generally should not exceed about 0.005 ml per gram of animal. Even when aqueous or physiological saline solutions are used for parenteral injection the volumes that are tolerated animale, although such solutions are ordinarily thought of as being innocuous. The intravenous LD<sub>50</sub> of distilled water in the mouse is approximately 0.044 ml per gram and that of isotonic saline is 0.068 ml per gram of mouse. In some instances, the route of administration to the test animal should be the same as, or as similar as possible to, the route of administration of the compound to man for therapeutic purposes.

When a compound is to be administered by inhalation, special techniques for generating test atmospheres are necessary. The methods usually involve aerosolization or nebulization of fluids containing the compound. If the agent to be tested is a fluid that has an appreciable vapor pressure, it may be administered by passing air through the solution under controlled temperature cenditions. Under these conditions, dose is estimated from the volume of air inhaled per unit time, the temperature of the solution, and the vapor pressure of the agent involved. Gases are metered from reservoirs. When particles of a solution are to be administered, unless the particle size is less than about 2 µm the particles will not reach the terminal alveolar sacs in the lungs. A variety of apparatuses and chambers are available to perform studies for detecting effects of irritant or other toxic endpoints when they are administered by inhalation. The preferred method of administering an agent to animals is via the oral route, either by intubation or by incorporating the agent in the feed.

When the agent is exposed to cells in vitro or in cell culture, the cell population to be exposed to the agent may be divided into two or more subpopulations, for instance, by dividing the population into two or more identical aliquots. In some preferred embodiments of the methods of the invention, the cells to be exposed to the agent are

derived from kidney tissue. For instance, cultured or freshly isolated rat renal cells may he used

The methods of the invention may be used generally to predict at least one toxic response, and, as described in the Examples, may be used to predict the likelihood that a compound or test agent will induce various specific kidney pathologies, such as 5 nephritis, kidney necrosis, glomerular and tubular injury, focal segmental glomerulosclerosis, or other pathologies associated with at least one of the toxins herein described. The methods of the invention may also be used to determine the similarity of a toxic response to one or more individual compounds. In addition, the methods of the invention may be used to predict or elucidate the potential cellular pathways influenced. induced or modulated by the compound or test agent due to the similarity of the expression profile compared to the profile induced by a known toxin (see Tables 5-5CC).

Diagnostic Uses for the Toxicity Markers

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As described above, the genes and gene expression information or portfolios of the genes with their expression information as provided in Tables 1-5 may be used as diagnostic markers for the prediction or identification of the physiological state of tissue or cell sample that has been exposed to a compound or to identify or predict the toxic effects of a compound or agent. For instance, a tissue sample such as a sample of peripheral blood cells or some other easily obtainable tissue sample may be assayed by any of the methods described above, and the expression levels from a gene or genes from Tables 1-5 may be compared to the expression levels found in tissues or cells exposed to the toxins described herein. These methods may result in the diagnosis of a physiological state in the cell or may be used to identify the potential toxicity of a compound, for instance a new or unknown compound or agent. The comparison of expression data, as well as available sequence or other information may be done by researcher or diagnostician or may be done with the aid of a computer and databases as described below.

In another format, the levels of a gene(s) of Tables 1-5, its encoded protein(s), or any metabolite produced by the encoded protein may be monitored or detected in a sample, such as a bodily tissue or fluid sample to identify or diagnose a physiological state of an organism. Such samples may include any tissue or fluid sample, including urine, blood and easily obtainable cells such as peripheral lymphocytes.

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Use of the Markers for Monitoring Toxicity Progression

As described above, the genes and gene expression information provided in Tables 1-5 may also be used as markers for the monitoring of toxicity progression, such as that found after initial exposure to a drug, drug candidate, toxin, pollutant, etc. For instance, a tissue or cell sample may be assayed by any of the methods described above, and the expression levels from a gene or genes from Tables 1-5 may be compared to the expression levels found in tissue or cells exposed to the renal toxins described herein. The comparison of the expression data, as well as available sequence or other information may be done by a researcher or diagnostician or may be done with the aid of a computer and databases.

Use of the Toxicity Markers for Drug Screening

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According to the present invention, the genes identified in Tables 1-5 may be used as markers or drug targets to evaluate the effects of a candidate drug, chemical compound or other agent on a cell or tissue sample. The genes may also be used as drug targets to screen for agents that modulate their expression and/or activity. In various formats, a candidate drug or agent can be screened for the ability to stimulate the transcription or expression of a given marker or markers or to down-regulate or counteract the transcription or expression of a marker or markers. According to the present invention, one can also compare the specificity of a drug's effects by looking at the number of markers which the drug induces and comparing them. More specific drugs will have less transcriptional targets. Similar sets of markers identified for two drugs may indicate a similarity of effects.

Assays to monitor the expression of a marker or markers as defined in Tables 1-5 may utilize any available means of monitoring for changes in the expression level of the nucleic acids of the invention. As used herein, an agent is said to modulate the expression of a nucleic acid of the invention if it is capable of up- or down-regulating expression of the nucleic acid in a cell.

In one assay format, gene chips containing probes to one, two or more genes from
Tables 1-5 may be used to directly monitor or detect changes in gene expression in the
treated or exposed cell. Cell lines, tissues or other samples are first exposed to a test
agent and in some instances, a known toxin, and the detected expression levels of one or
more, or preferably 2 or more of the genes of Tables 1-5 are compared to the expression

levels of those same genes exposed to a known toxin alone. Compounds that modulate the expression patterns of the known toxin(s) would be expected to modulate potential toxic physiological effects in vivo. The genes in Tables 1-5 are particularly appropriate markers in these assays as they are differentially expressed in cells upon exposure to a known renal toxin. Tables 1 and 2 disclose those genes that are differentially expressed upon exposure to the named toxins and their corresponding GenBank Accession numbers. Table 3 discloses the human homologues and the corresponding GenBank Accession numbers of the differentially expressed genes of Tables 1 and 2.

In another format, cell lines that contain reporter gene fusions between the open reading frame and/or the transcriptional regulatory regions of a gene in Tables 1-5 and any assayable fusion partner may be prepared. Numerous assayable fusion partners are known and readily available including the firefly luciferase gene and the gene encoding chloramphenicol acetyltransferase (Alam et al. (1990), Anal Biochem 188: 245-254). Cell lines containing the reporter gene fusions are then exposed to the agent to be tested under appropriate conditions and time. Differential expression of the reporter gene between samples exposed to the agent and control samples identifies agents which modulate the expression of the nucleic acid.

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Additional assay formats may be used to monitor the ability of the agent to modulate the expression of a gene identified in Tables 1-5. For instance, as described above, mRNA expression may be monitored directly by hybridization of probes to the nucleic acids of the invention. Cell lines are exposed to the agent to be tested under appropriate conditions and time, and total RNA or mRNA is isolated by standard procedures such those disclosed in Sambrook et al. (Molecular Cloning: A Laboratory Manual, 2nd Ed., Cold Spring Harbor Laboratory Press, Cold Spring Harbor, NY, 1989).

In another assay format, cells or cell lines are first identified which express the gene products of the invention physiologically. Cells and/or cell lines so identified would be expected to comprise the necessary cellular machinery such that the fidelity of modulation of the transcriptional apparatus is maintained with regard to exogenous contact of agent with appropriate surface transduction mechanisms and/or the cytosolic cascades. Further, such cells or cell lines may be transduced or transfected with an expression vehicle (e.g., a plasmid or viral vector) construct comprising an operable non-translated 5-promoter containing end of the structural gene encoding the sene products

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of Tables 1-5 fused to one or more antigenic fragments or other detectable markers. which are peculiar to the instant gene products, wherein said fragments are under the transcriptional control of said promoter and are expressed as polypeptides whose molecular weight can be distinguished from the naturally occurring polypeptides or may further comprise an immunologically distinct or other detectable tag. Such a process is well known in the art (see Sambrook et al., supra).

Cells or cell lines transduced or transfected as outlined above are then contacted with agents under appropriate conditions; for example, the agent comprises a pharmaceutically acceptable excipient and is contacted with cells comprised in an aqueous physiological buffer such as phosphate buffered saline (PBS) at physiological pH, Eagles balanced salt solution (BSS) at physiological pH, PBS or BSS comprising serum or conditioned media comprising PBS or BSS and/or serum incubated at 37°C. Said conditions may be modulated as deemed necessary by one of skill in the art. Subsequent to contacting the cells with the agent, said cells are disrupted and the polypeptides of the lysate are fractionated such that a polypeptide fraction is pooled and contacted with an antibody to be further processed by immunological assay (e.g., ELISA, immunoprecipitation or Western blot). The pool of proteins isolated from the agentcontacted sample is then compared with the control samples (no exposure and exposure to a known toxin) where only the excipient is contacted with the cells and an increase or 20 decrease in the immunologically generated signal from the agent-contacted sample compared to the control is used to distinguish the effectiveness and/or toxic effects of the agent.

Another embodiment of the present invention provides methods for identifying agents that modulate at least one activity of a protein(s) encoded by the genes in Tables 1-5. Such methods or assays may utilize any means of monitoring or detecting the desired activity.

In one format, the relative amounts of a protein (Tables 1-5) between a cell population that has been exposed to the agent to be tested compared to an un-exposed control cell population and a cell population exposed to a known toxin may be assayed. In this format, probes such as specific antibodies are used to monitor the differential expression of the protein in the different cell populations. Cell lines or populations are exposed to the agent to be tested under appropriate conditions and time. Cellular lysates may be prepared from the exposed cell line or population and a control, unexposed cell line or population. The cellular lysates are then analyzed with the probe, such as a specific antibody.

Agents that are assayed in the above methods can be randomly selected or rationally selected or designed. As used herein, an agent is said to be randomly selected when the agent is chosen randomly without considering the specific sequences involved in the association of a protein of the invention alone or with its associated substrates. binding partners, etc. An example of randomly selected agents is the use a chemical library or a peptide combinatorial library, or a growth broth of an organism.

As used herein, an agent is said to be rationally selected or designed when the agent is chosen on a nonrandom basis which takes into account the sequence of the target site and/or its conformation in connection with the agent's action. Agents can be rationally selected or rationally designed by utilizing the peptide sequences that make up these sites. For example, a rationally selected peptide agent can be a pentide whose amino acid sequence is identical to or a derivative of any functional consensus site.

The agents of the present invention can be, as examples, peptides, small molecules, vitamin derivatives, as well as carbohydrates. Dominant negative proteins, DNAs encoding these proteins, antibodies to these proteins, peptide fragments of these proteins or mimics of these proteins may be introduced into cells to affect function. 2.0 "Mimic" used herein refers to the modification of a region or several regions of a pentide molecule to provide a structure chemically different from the parent peptide but topographically and functionally similar to the parent peptide (see G.A. Grant in: Molecular Biology and Biotechnology, Meyers, ed., pp. 659-664, VCH Publishers, New York, 1995). A skilled artisan can readily recognize that there is no limit as to the structural nature of the agents of the present invention.

## Nucleic Acid Assay Formats

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The genes identified as being differentially expressed upon exposure to a known renal toxin (Tables 1-5) may be used in a variety of nucleic acid detection assays to detect or quantify the expression level of a gene or multiple genes in a given sample. The genes described in Tables 1-5 may also be used in combination with one or more additional genes whose differential expression is associate with toxicity in a cell or tissue. In preferred embodiments, the genes in Tables 1-5 may be combined with one or

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more of the genes described in prior and related applications 60/292,335; 60/297,523; 60/298,925; 60/303,810; 60/303,807; 60/303,808; 60/315,047; 60/324,928; 60/330,867; 60/330,462; 60/331,805; 60/336,144; 60/340,873; 60/357,843; 60/357,842; 60/357,842; 60/364,134; 60/370,206; 60/370,247; 60/370,144; 60/371,679; 60/372,794, 09/917,800 and 10/060,087 all of which are incorporated by reference on page 1 of this application.

Any assay format to detect gene expression may be used. For example, traditional Northern blotting, dot or slot blot, nuclease protection, primer directed amplification, RT-PCR, semi- or quantitative PCR, branched-chain DNA and differential display methods may be used for detecting gene expression levels. Those methods are useful for some embodiments of the invention. In cases where smaller numbers of genes are detected, amplification based assays may be most efficient. Methods and assays of the invention, however, may be most efficiently designed with hybridization-based methods for detecting the expression of a large number of genes.

Any hybridization assay format may be used, including solution-based and solid support-based assay formats. Solid supports containing oligonucleotide probes for differentially expressed genes of the invention can be filters, polyvinyl chloride dishes, particles, beads, microparticles or silicon or glass based chips, etc. Such chips, wafers and hybridization methods are widely available, for example, those disclosed by Beattie (WO 95/11755).

Any solid surface to which oligonucleotides can be bound, either directly or indirectly, either covalently or non-covalently, can be used. A preferred solid support is a high density array or DNA chip. These contain a particular oligonucleotide probe in a predetermined location on the array. Each predetermined location may contain more than one molecule of the probe, but each molecule within the predetermined location has an identical sequence. Such predetermined locations are termed features. There may be, for example, from 2, 10, 100, 1000 to 10,000, 100,000 or 400,000 or more of such features on a single solid support. The solid support, or the area within which the probes are attached may be on the order of about a square centimeter. Probes corresponding to the genes of Tables 1-5 or from the related applications described above may be attached to single or multiple solid support structures, e.g., the probes may be attached to a single chip or to multiple chips to comprise a chip set.

Oligonucleotide probe arrays for expression monitoring can be made and used

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according to any techniques known in the art (see for example, Lockhart et al. (1996), Nat Biotechnol 14: 1675-1680; McGall et al. (1996), Proc Nat Acad Sci USA 93: 13555-13460). Such probe arrays may contain at least two or more oligonucleotides that are complementary to or hybridize to two or more of the genes described in Tables 1-5. For instance, such arrays may contain oligonucleotides that are complementary to or hybridize to at least 2, 3, 4, 5, 6, 7, 8, 9, 10, 20, 30, 50, 70, 100 or more of the genes described herein. Preferred arrays contain all or nearly all of the genes listed in Tables 1-5, or individually, the gene sets of Tables 5-5CC. In a preferred embodiment, arrays are constructed that contain oligonucleotides to detect all or nearly all of the genes in any one of or all of Tables 1-5 on a single solid support substrate, such as a chip.

The sequences of the expression marker genes of Tables 1-5 are in the public databases. Table 1 provides the GenBank Accession Number or NCBI RefSeq ID for each of the sequences (see www.ncbi.nlm.nih.gow). Table 3 provides the LocusLink and Unigene names and descriptions for the human homologues of the genes described in Tables 1 and 2. The sequences of the genes in GenBank and/or RefSeq are expressly herein incorporated by reference in their entirety as of the filing date of this application, as are related sequences, for instance, sequences from the same gene of different lengths, variant sequences, polymorphic sequences, genomic sequences of the genes and related sequences from different species, including the human counterparts, where appropriate. These sequences may be used in the methods of the invention or may be used to produce the probes and arrays of the invention. In some embodiments, the genes in Tables 1-5 that correspond to the genes or fragments previously associated with a toxic response may be excluded from the Tables.

As described above, in addition to the sequences of the GenBank Accession
Numbers or NCBI RefSeq ID's disclosed in the Tables 1-5, sequences such as naturally
occurring variants or polymorphic sequences may be used in the methods and
compositions of the invention. For instance, expression levels of various allelic or
homologous forms of a gene disclosed in Tables 1-5 may be assayed. Any and all
nucleotide variations that do not alter the functional activity of a gene listed in the Tables
1-5, including all naturally occurring allelic variants of the genes herein disclosed, may
be used in the methods and to make the compositions (e.g., arrays) of the invention.

Probes based on the sequences of the genes described above may be prepared by

any commonly available method. Oligonucleotide probes for screening or assaying a tissue or cell sample are preferably of sufficient length to specifically hybridize only to appropriate, complementary genes or transcripts. Typically the oligonucleotide probes will be at least about 10, 12, 14, 16, 18, 20 or 25 nucleotides in length. In some cases, longer probes of at least 30, 40, or 50 nucleotides will be desirable.

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As used herein, oligonucleotide sequences that are complementary to one or more of the genes described in Tables 1-5 refer to oligonucleotides that are capable of hybridizing under stringent conditions to at least part of the nucleotide sequences of said genes. Such hybridizable oligonucleotides will typically exhibit at least about 75% sequence identity at the nucleotide level to said genes, preferably about 80% or 85% sequence identity or more preferably about 90% or 95% or more sequence identity to said genes.

"Bind(s) substantially" refers to complementary hybridization between a probe nucleic acid and a target nucleic acid and embraces minor mismatches that can be accommodated by reducing the stringency of the hybridization media to achieve the desired detection of the target polynucleotide sequence.

The terms "background" or "background signal intensity" refer to hybridization signals resulting from non-specific binding, or other interactions, between the labeled target nucleic acids and components of the oligonucleotide array (e.g., the oligonucleotide probes, control probes, the array substrate, etc.). Background signals may also be produced by intrinsic fluorescence of the array components themselves. A single background signal can be calculated for the entire array, or a different background signal may be calculated for each target nucleic acid. In a preferred embodiment, background is calculated as the average hybridization signal intensity for the lowest 5% to 10% of the probes in the array, or, where a different background signal is calculated for each target gene, for the lowest 5% to 10% of the probes for each gene. Of course, one of skill in the art will appreciate that where the probes to a particular gene hybridize well and thus appear to be specifically binding to a target sequence, they should not be used in a background signal calculation. Alternatively, background may be calculated as the average hybridization signal intensity produced by hybridization to probes that are not complementary to any sequence found in the sample (e.g. probes directed to nucleic acids of the opposite sense or to genes not found in the sample such as bacterial genes

where the sample is mammalian nucleic acids). Background can also be calculated as the average signal intensity produced by regions of the array that lack any probes at all.

The phrase "hybridizing specifically to" or "specifically hybridizes" refers to the binding, duplexing, or hybridizing of a molecule substantially to or only to a particular nucleotide sequence or sequences under stringent conditions when that sequence is present in a complex mixture (e.g., total cellular) DNA or RNA.

Assays and methods of the invention may utilize available formats to simultaneously screen at least about 100, preferably about 1000, more preferably about 10,000 and most preferably about 1,000,000 different nucleic acid hybridizations.

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As used herein a "probe" is defined as a nucleic acid, capable of binding to a target nucleic acid of complementary sequence through one or more types of chemical bonds, usually through complementary base pairing, usually through hydrogen bond formation. As used herein, a probe may include a natural (i.e., A, G, U, C, or T) or modified bases (7-deazaguanosine, inosine, etc.). In addition, the bases in probes may be joined by a linkage other than a phosphodiester bond, so long as it does not interfere with hybridization. Thus, probes may be peptide nucleic acids in which the constituent bases are joined by peptide bonds rather than phosphodiester linkages.

The term "perfect match probe" refers to a probe that has a sequence that is perfectly complementary to a particular target sequence. The test probe is typically perfectly complementary to a portion (subsequence) of the target sequence. The perfect match (PM) probe can be a "test probe", a "normalization control" probe, an expression level control probe and the like. A perfect match control or perfect match probe is, however, distinguished from a "mismatch control" or "mismatch probe."

The terms "mismatch control" or "mismatch probe" refer to a probe whose sequence is deliberately selected not to be perfectly complementary to a particular target sequence. For each mismatch (MM) control in a high-density array there typically exists a corresponding perfect match (PM) probe that is perfectly complementary to the same particular target sequence. The mismatch may comprise one or more bases.

While the mismatch(es) may be located anywhere in the mismatch probe, terminal mismatches are less desirable as a terminal mismatch is less likely to prevent hybridization of the target sequence. In a particularly preferred embodiment, the mismatch is located at or near the center of the probe such that the mismatch is most likely to destabilize the duplex with the target sequence under the test hybridization conditions

The term "stringent conditions" refers to conditions under which a probe will hybridize to its target subsequence, but with only insubstantial hybridization to other sequences or to other sequences such that the difference may be identified. Stringent conditions are sequence-dependent and will be different in different circumstances. Longer sequences hybridize specifically at higher temperatures. Generally, stringent conditions are selected to be about 5°C lower than the thermal melting point (Tm) for the specific sequence at a defined ionic strength and pH.

Typically, stringent conditions will be those in which the salt concentration is at least about 0.01 to 1.0 M Na\* ion concentration (or other salts) at pH 7.0 to 8.3 and the temperature is at least about 30°C for short probes (e.g., 10 to 50 nucleotides). Stringent conditions may also be achieved with the addition of destabilizing agents such as formamide.

The "percentage of sequence identity" or "sequence identity" is determined by comparing two optimally aligned sequences or subsequences over a comparison window or span, wherein the portion of the polynucleotide sequence in the comparison window may optionally comprise additions or deletions (i.e., gaps) as compared to the reference sequence (which does not comprise additions or deletions) for optimal alignment of the two sequences. The percentage is calculated by determining the number of positions at which the identical submit (e.g. nucleic acid base or amino acid residue) occurs in both sequences to yield the number of matched positions, dividing the number of matched positions by the total number of positions in the window of comparison and multiplying the result by 100 to yield the percentage of sequence identity. Percentage sequence identity when calculated using the programs GAP or BESTFIT (see below) is calculated using default gap weights.

Probe design

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One of skill in the art will appreciate that an enormous number of array designs are suitable for the practice of this invention. The high density array will typically include a number of test probes that specifically hybridize to the sequences of interest. Probes may be produced from any region of the genes identified in the Tables and the attached representative sequence listing. In instances where the gene reference in the

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Tables is an EST, probes may be designed from that sequence or from other regions of the corresponding full-length transcript that may be available in any of the sequence databases, such as those herein described. See WO 99/32660 for methods of producing probes for a given gene or genes. In addition, any available software may be used to produce specific probe sequences, including, for instance, software available from Molecular Biology Insights, Olympus Optical Co. and Biosoft International. In a preferred embodiment, the array will also include one or more control probes.

High density array chips of the invention include "test probes." Test probes may be oligonucleotides that range from about 5 to about 500, or about 7 to about 50 nucleotides, more preferably from about 10 to about 40 nucleotides and most preferably from about 15 to about 35 nucleotides in length. In other particularly preferred embodiments, the probes are 20 or 25 nucleotides in length. In another preferred embodiment, test probes are double or single strand DNA sequences such as cDNA fragments. DNA sequences are isolated or cloned from natural sources or amplified from natural sources using native nucleic acid as templates. These probes have sequences complementary to particular subsequences of the genes whose expression they are designed to detect. Thus, the test probes are capable of specifically hybridizing to the tarset nucleic acid they are to detect.

In addition to test probes that bind the target nucleic acid(s) of interest, the high density array can contain a number of control probes. The control probes may fall into three categories referred to herein as 1) normalization controls; 2) expression level controls; and 3) mismatch controls.

Normalization controls are oligonucleotide or other nucleic acid probes that are complementary to labeled reference oligonucleotides or other nucleic acid sequences that are added to the nucleic acid sample to be screened. The signals obtained from the normalization controls after hybridization provide a control for variations in hybridization conditions, label intensity, "reading" efficiency and other factors that may cause the signal of a perfect hybridization to vary between arrays. In a preferred embodiment, signals (e.g., fluorescence intensity) read from all other probes in the array are divided by the signal (e.g., fluorescence intensity) from the control probes thereby normalizing the measurements.

Virtually any probe may serve as a normalization control. However, it is

recognized that hybridization efficiency varies with base composition and probe length.

Preferred normalization probes are selected to reflect the average length of the other probes present in the array, however, they can be selected to cover a range of lengths.

The normalization control(s) can also be selected to reflect the (average) base

composition of the other probes in the array, however in a preferred embodiment, only one or a few probes are used and they are selected such that they hybridize well (i.e., no secondary structure) and do not match any target-specific probes.

Expression level controls are probes that hybridize specifically with constitutively expressed genes in the biological sample. Virtually any constitutively expressed gene provides a suitable target for expression level controls. Typically expression level control probes have sequences complementary to subsequences of constitutively expressed "housekeeping genes" including, but not limited to the actin gene, the transferrin receptor gene, the GAPDH gene, and the like.

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Mismatch controls may also be provided for the probes to the target genes, for expression level controls or for normalization controls. Mismatch controls are oligonucleotide probes or other nucleic acid probes identical to their corresponding test or control probes except for the presence of one or more mismatched bases. A mismatched base is a base selected so that it is not complementary to the corresponding base in the target sequence to which the probe would otherwise specifically hybridize. One or more mismatches are selected such that under appropriate hybridization conditions (e.g., stringent conditions) the test or control probe would be expected to hybridize with its target sequence, but the mismatch probe would not hybridize (or would hybridize to a significantly lesser extent). Preferred mismatch probes contain a central mismatch. Thus, for example, where a probe is a 20 mer, a corresponding mismatch probe will have the identical sequence except for a single base mismatch (e.g., substituting a G, a C or a T for an A) at any of positions 6 through 14 (the central mismatch).

. Mismatch probes thus provide a control for non-specific binding or cross hybridization to a nucleic acid in the sample other than the target to which the probe is directed. For example, if the target is present the perfect match probes should be consistently brighter than the mismatch probes. In addition, if all central mismatches are present, the mismatch probes can be used to detect a mutation, for instance, a mutation of

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a gene in the accompanying Tables 1-5. The difference in intensity between the perfect match and the mismatch probe provides a good measure of the concentration of the hybridized material.

Nucleic Acid Samples

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Cell or tissue samples may be exposed to the test agent in vitro or in vivo. When cultured cells or tissues are used, appropriate mammalian cell extracts, such as liver extracts, may also be added with the test agent to evaluate agents that may require biotransformation to exhibit toxicity. In a preferred format, primary isolates of animal or human renal cells which already express the appropriate complement of drug-10 metabolizing enzymes may be exposed to the test agent without the addition of mammalian kidney extracts.

The genes which are assayed according to the present invention are typically in the form of mRNA or reverse transcribed mRNA. The genes may or may not be cloned. The genes may or may not be amplified. The cloning and/or amplification do not appear to bias the representation of genes within a population. In some assays, it may be preferable, however, to use polyA+RNA as a source, as it can be used with less processing steps.

As is apparent to one of ordinary skill in the art, nucleic acid samples used in the methods and assays of the invention may be prepared by any available method or process. Methods of isolating total mRNA are well known to those of skill in the art. For example, methods of isolation and purification of nucleic acids are described in detail in Chapter 3 of Laboratory Techniques in Biochemistry and Molecular Biology, Vol. 24, Hybridization With Nucleic Acid Probes: Theory and Nucleic Acid Probes. P. Tijssen, Ed., Elsevier Press, New York, 1993. Such samples include RNA samples, but also include cDNA synthesized from a mRNA sample isolated from a cell or tissue of interest. Such samples also include DNA amplified from the cDNA, and RNA transcribed from the amplified DNA. One of skill in the art would appreciate that it is desirable to inhibit or destroy RNase present in homogenates before homogenates are used.

Biological samples may be of any biological tissue or fluid or cells from any organism as well as cells raised in vitro, such as cell lines and tissue culture cells. Frequently the sample will be a tissue or cell sample that has been exposed to a

compound, agent, drug, pharmaceutical composition, potential environmental pollutant or other composition. In some formats, the sample will be a "clinical sample" which is a sample derived from a patient. Typical clinical samples include, but are not limited to, sputum, blood, blood-cells (e.g., white cells), tissue or fine needle biopsy samples, urine, peritoneal fluid, and pleural fluid, or cells therefrom. Biological samples may also include sections of tissues, such as frozen sections or formalin fixed sections taken for histological purposes.

## Forming High Density Arrays

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Methods of forming high density arrays of oligonucleotides with a minimal number of synthetic steps are known. The oligonucleotide analogue array can be synthesized on a single or on multiple solid substrates by a variety of methods, including, but not limited to, light-directed chemical coupling, and mechanically directed coupling (see Pirrung, U.S. Patent No. 5,143,854).

In brief, the light-directed combinatorial synthesis of oligonucleotide arrays on a glass surface proceeds using automated phosphoramidite chemistry and chip masking techniques. In one specific implementation, a glass surface is derivatized with a silane reagent containing a functional group, e.g., a hydroxyl or amine group blocked by a photolabile protecting group. Photolysis through a photolithographic mask is used selectively to expose functional groups which are then ready to react with incoming 5' photoprotected nucleoside phosphoramidites. The phosphoramidites react only with those sites which are illuminated (and thus exposed by removal of the photolabile blocking group). Thus, the phosphoramidites only add to those areas selectively exposed from the preceding step. These steps are repeated until the desired array of sequences have been synthesized on the solid surface. Combinatorial synthesis of different oligonucleotide analogues at different locations on the array is determined by the pattern of illumination during synthesis and the order of addition of coupling reagents.

In addition to the foregoing, additional methods which can be used to generate an array of oligonucleotides on a single substrate are described in PCT Publication Nos. WO 93/09668 and WO 01/23614. High density nucleic acid arrays can also be fabricated by depositing pre-made or natural nucleic acids in predetermined positions. Synthesized or natural nucleic acids are deposited on specific locations of a substrate by light directed targeting and oligonucleotide directed targeting. Another embodiment uses

a dispenser that moves from region to region to deposit nucleic acids in specific spots.

Hybridization

Nucleic acid hybridization simply involves contacting a probe and target nucleic acid under conditions where the probe and its complementary target can form stable hybrid duplexes through complementary base pairing. See WO 99/32660. The nucleic acids that do not form hybrid duplexes are then washed away leaving the hybridized nucleic acids to be detected, typically through detection of an attached detectable label. It is generally recognized that nucleic acids are denatured by increasing the temperature or decreasing the salt concentration of the buffer containing the nucleic acids. Under low stringency conditions (e.g., low temperature and/or high salt) hybrid duplexes (e.g., DNA:DNA, RNA:RNA, or RNA:DNA) will form even where the annealed sequences are not perfectly complementary. Thus, specificity of hybridization is reduced at lower stringency. Conversely, at higher stringency (e.g., higher temperature or lower salt) successful hybridization tolerates fewer mismatches. One of skill in the art will appreciate that hybridization conditions may be selected to provide any degree of stringency.

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In a preferred embodiment, hybridization is performed at low stringency, in this case in 6x SSPET at 37°C (0.005% Triton X-100), to ensure hybridization and then subsequent washes are performed at higher stringency (e.g., 1x SSPET at 37°C) to eliminate mismatched hybrid duplexes. Successive washes may be performed at increasingly higher stringency (e.g., down to as low as 0.25x SSPET at 37°C to 50°C) until a desired level of hybridization specificity is obtained. Stringency can also be increased by addition of agents such as formamide. Hybridization specificity may be evaluated by comparison of hybridization to the test probes with hybridization to the various controls that can be present (e.g., expression level control, normalization control, mismatch controls, etc.).

In general, there is a tradeoff between hybridization specificity (stringency) and signal intensity. Thus, in a preferred embodiment, the wash is performed at the highest stringency that produces consistent results and that provides a signal intensity greater than approximately 10% of the background intensity. Thus, in a preferred embodiment, the hybridized array may be washed at successively higher stringency solutions and read between each wash. Analysis of the data sets thus produced will reveal a wash

stringency above which the hybridization pattern is not appreciably altered and which provides adequate signal for the particular oligonucleotide probes of interest.

#### Signal Detection

The hybridized nucleic acids are typically detected by detecting one or more labels attached to the sample nucleic acids. The labels may be incorporated by any of a number of means well known to those of skill in the art. See WO 99/32660.

#### Databases

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The present invention includes relational databases containing sequence information, for instance, for the genes of Tables 1-5, as well as gene expression information from tissue or cells exposed to various standard toxins, such as those herein described (see Tables 5-5CC). Databases may also contain information associated with a given sequence or tissue sample such as descriptive information about the gene associated with the sequence information (see Tables 1 and 2), or descriptive information concerning the clinical status of the tissue sample, or the animal from which the sample was derived. The database may be designed to include different parts, for instance a sequence database and a gene expression database. Methods for the configuration and construction of such databases and computer-readable media to which such databases are saved are widely available, for instance, see U.S. Patent No. 5,953,727, which is herein incomporated by reference in its entirety.

The databases of the invention may be linked to an outside or external database such as GenBank (www.ncbi.nlm.nih.gowlentrez.index.html); KEGG (www.genome.ad.jp/kegg); SPAD (www.grt.kyushu-u.ac.jp/spad/index.html); HUGO (www.gene.u.cl.ac.uk/hugo); Swiss-Prot (www.expasy.ch.sprot); Prosite (www.expasy.ch/tools/scnpsit1.html); OMIM (www.ncbi.nlm.nih.gowlomim); and GDB (www.gdb.org). In a preferred embodiment, as described in Tables 1-5, the external database is GenBank and the associated databases maintained by the National Center for Biotechnology Information (NCBI) (www.ncbi.nlm.nih.gov).

Any appropriate computer platform, user interface, etc. may be used to perform
the necessary comparisons between sequence information, gene expression information
and any other information in the database or information provided as an input. For
example, a large number of computer workstations are available from a variety of
manufacturers, such has those available from Silicon Graphics. Client/server

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environments, database servers and networks are also widely available and appropriate platforms for the databases of the invention.

The databases of the invention may be used to produce, among other things,
electronic Northerns that allow the user to determine the cell type or tissue in which a

given gene is expressed and to allow determination of the abundance or expression level
of a given gene in a particular tissue or cell.

The databases of the invention may also be used to present information identifying the expression level in a tissue or cell of a set of genes comprising one or more of the genes in Tables 1-5, comprising the step of comparing the expression level of at least one gene in Tables 1-5 in a cell or tissue exposed to a test agent to the level of expression of the gene in the database. Such methods may be used to predict the toxic potential of a given compound by comparing the level of expression of a gene or genes in Tables 1-5 from a tissue or cell sample exposed to the test agent to the expression levels found in a control tissue or cell sample exposed to a standard toxin or renal toxin such as those herein described. Such methods may also be used in the drug or agent screening assays as described herein.

Kits

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The invention further includes kits combining, in different combinations, high-density oligonucleotide arrays, reagents for use with the arrays, protein reagents encoded by the genes of the Tables, signal detection and array-processing instruments, gene expression databases and analysis and database management software described above. The kits may be used, for example, to predict or model the toxic response of a test compound, to monitor the progression of renal disease states, to identify genes that show promise as new drug targets and to screen known and newly designed drugs as discussed above.

The databases packaged with the kits are a compilation of expression patterns from human or laboratory animal genes and gene fragments (corresponding to the genes of Tables 1-5). In particular, the database software and packaged information that may contain the databases saved to a computer-readable medium include the expression results of Tables 1-5 that can be used to predict toxicity of a test agent by comparing the expression levels of the genes of Tables 1-5 induced by the test agent to the expression levels presented in Tables 5-5CC. In another format, database and software information

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may be provided in a remote electronic format, such as a website, the address of which may be packaged in the kit.

The kits may used in the pharmaceutical industry, where the need for early drug testing is strong due to the high costs associated with drug development, but where bioinformatics, in particular gene expression informatics, is still lacking. These kits will reduce the costs, time and risks associated with traditional new drug screening using cell cultures and laboratory animals. The results of large-scale drug screening of pre-grouped patient populations, pharmacogenomics testing, can also be applied to select drugs with greater efficacy and fewer side-effects. The kits may also be used by smaller 10 biotechnology companies and research institutes who do not have the facilities for performing such large-scale testing themselves.

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Databases and software designed for use with microarrays is discussed in Balaban et al., U.S. Patent Nos. 6,229,911, a computer-implemented method for managing information, stored as indexed Tables 1-5, collected from small or large numbers of microarrays, and 6,185,561, a computer-based method with data mining capability for collecting gene expression level data, adding additional attributes and reformatting the data to produce answers to various queries. Chee et al., U.S. Patent No. 5,974,164. disclose a software-based method for identifying mutations in a nucleic acid sequence based on differences in probe fluorescence intensities between wild type and mutant sequences that hybridize to reference sequences.

Without further description, it is believed that one of ordinary skill in the art can, using the preceding description and the following illustrative examples, make and utilize the compounds of the present invention and practice the claimed methods. The following working examples therefore, specifically point out the preferred embodiments of the present invention, and are not to be construed as limiting in any way the remainder of the disclosure.

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#### EXAMPLES

# Example 1: Identification of Toxicity Markers

The renal toxins cephaloridine, cisplatin, puromycin aminonucleoside (PAN), bromoethylamine hydrobromide (BEA), gentamicin, ifosfamide, cyclophosphamide, carboplatin, AY-25329, indomethacin, acyclovir, citrinin, mercuric chloride, diflunisal, cidofovir, pamidronate, lithium, hydralazine, colchicine, sulfadiazine, and adriamycin and control compositions were administered to male Sprague-Dawley rats at various timepoints using administration diluents, protocols and dosing regimes as previously described in the art and previously described in the priority applications discussed above.

10 The low and high dose level for each compound are provided in the chart below.

Renal Toxin	Low Dose (mg/kg)	High Dose (mg/kg)	Method of Administration
cephaloridine	100	800	intravenous
cisplatin	1	5	intravenous
PAN	10	150	intravenous
BEA	10	200	intraperitoneal
gentamicin	2	80	intramuscular
ifosfamide	5	100	intraperitoneal
cyclophosphamide	20	2000	intraperitoneal
carboplatin	5	50	intravenous
AY-25329	25	250	oral gavage
indomethacin	1	10	oral gavage
acyclovir	10	100	intraperitoneal
citrinin	1	35	intraperitoneal
mercuric chloride	0.1	1	intravenous
diflunisal	2	400	oral gavage
cidofovir	10	100	intraperitoneal
pamidronate	1	60	intraperitoneal
lithium	0.3 (nmol/kg)	3 (nmol/kg)	intraperitoneal
hydralazine	2.5	25	intraperitoneal
colchicine	0.15	1.5	intraperitoneal
sulfadiazine	100	1000	intravenous
adriamycin	1.3	12.8	intravenous

After administration, the dosed animals were observed and tissues were collected as described below:

# OBSERVATION OF ANIMALS

1. Clinical Observations-

Twice daily: mortality and moribundity check.

Cage Side Observations - skin and fur, eyes and
mucous membrane, respiratory system, circulatory
system, autonomic and central nervous system,
somatomotor pattern, and behavior pattern.

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Potential signs of toxicity, including tremors, convulsions, salivation, diarrhea, lethargy, coma or other atypical behavior or appearance, were recorded as they occurred and included a time of onset, degree, and duration.

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2. Physical Examinations-

Prior to randomization, prior to initial treatment, and prior to sacrifice.

3. Body Weights-

Prior to randomization, prior to initial treatment, and prior to sacrifice.

10 CLINICAL PATHOLOGY

1. Frequency

Prior to necropsy.

2. Number of animals

All surviving animals.

Bleeding Procedure

Blood was obtained by puncture of the orbital sinus while under 70% CO<sub>2</sub>/30% O<sub>2</sub> anesthesia.

 4. Collection of Blood Samples Approximately 0.5 mL of blood was collected into EDTA tubes for evaluation of hematology parameters. Approximately 1 mL of

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blood was collected into serum separator tubes for clinical chemistry analysis. Approximately 200 uL of plasma was obtained and frozen at ~80°C for test compound/metabolite estimation. An

additional ~2 mL of blood was collected into a 15 mL conical polypropylene vial to which ~3 mL of Trizol was immediately added. The contents were immediately mixed with a vortex and by repeated inversion. The tubes were frozen in liquid nitrogen

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and stored at ~-80°C.

#### TERMINATION PROCEDURES

### Terminal Sacrifice

Approximately 3, 6, 24, 48, 72, 120, 144, 168, 336, and/or 360 hours after

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the initial dose, rats were weighed, physically examined, sacrificed by decapitation, and exsanguinated. The animals were necropsied within approximately five minutes of sacrifice. Separate sterile, disposable instruments were used for each animal, with the exception of bone cutters, which were used to open the skull cap. The bone cutters were dipped in disinfectant solution between animals

Necropsies were conducted on each animal following procedures approved by board-certified pathologists.

Animals not surviving until terminal sacrifice were discarded without necropsy (following euthanasia by carbon dioxide asphyxiation, if moribund). The approximate time of death for moribund or found dead animals was recorded.

#### Postmortem Procedures

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Fresh and sterile disposable instruments were used to collect tissues.

Gloves were worn at all times when handling tissues or vials. All tissues were collected and frozen within approximately 5 minutes of the animal's death. The liver sections and kidneys were frozen within approximately 3-5 minutes of the animal's death. The time of euthanasia, an interim time point at freezing of liver sections and kidneys, and time at completion of necropsy were recorded. Tissues were stored at approximately -80°C or preserved in 10% neutral buffered formalin.

Tissue Collection and Processing

#### Liver

- 1. Right medial lobe snap frozen in liquid nitrogen and stored at  $\sim$  80°C.
- Left medial lobe Preserved in 10% neutral-buffered formalin (NBF) and evaluated for gross and microscopic pathology.
- 3. Left lateral lobe snap frozen in liquid nitrogen and stored at ~-80°C.

#### Heart

A sagittal cross-section containing portions of the two atria and of the two ventricles was preserved in 10% NBF. The remaining heart was frozen in liquid nitrogen and stored at  $\sim$ -80°C.

# 5 Kidneys (both)

- 1. Left Hemi-dissected; half was preserved in 10% NBF and the remaining half was frozen in liquid nitrogen and stored at ~-80°C.
- 2. Right Hemi-dissected; half was preserved in 10% NBF and the remaining half was frozen in liquid nitrogen and stored at  $\sim$  -80°C.

# 10 Testes (both)

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A sagittal cross-section of each testis was preserved in 10% NBF. The remaining testes were frozen together in liquid nitrogen and stored at  $\sim$  80°C.

## Brain (whole)

A cross-section of the cerebral hemispheres and of the diencephalon was preserved in 10% NBF, and the rest of the brain was frozen in liquid nitrogen and stored at ~ -80°C.

Microarray sample preparation was conducted with minor modifications, following the protocols set forth in the Affymetrix GeneChip Expression Analysis

Manual. Frozen tissue was ground to a powder using a Spex Certiprep 6800 Freezer Mill. Total RNA was extracted with Trizol (GibcoBRL) utilizing the manufacturer's protocol. The total RNA yield for each sample was 200-500 µg per 300 mg tissue weight. mRNA was isolated using the Oligotex mRNA Midi kit (Qiagen) followed by ethanol precipitation. Double stranded cDNA was generated from mRNA using the SuperScript Choice system (GibcoBRL). First strand cDNA synthesis was primed with a T7-(dT24) oligonucleotide. The cDNA was phenol-chloroform extracted and ethanol precipitated to a final concentration of 1 µg/ml. From 2 µg of cDNA, cRNA was synthesized using Ambion's T7 MegaScript in vitro Transcription Kit.

To biotin label the cRNA, nucleotides Bio-11-CTP and Bio-16-UTP (Enzo

Diagnostics) were added to the reaction. Following a 37°C incubation for six hours. impurities were removed from the labeled cRNA following the RNeasy Mini kit protocol (Qiagen). cRNA was fragmented (fragmentation buffer consisting of 200 mM Trisacetate, pH 8.1, 500 mM KOAc, 150 mM MgOAc) for thirty-five minutes at 94°C.

Following the Affymetrix protocol, 55 µg of fragmented cRNA was hybridized on the 5 Affymetrix rat array set for twenty-four hours at 60 rpm in a 45°C hybridization oven. The chips were washed and stained with Streptavidin Phycoerythrin (SAPE) (Molecular Probes) in Affymetrix fluidics stations. To amplify staining, SAPE solution was added twice with an anti-streptavidin biotinylated antibody (Vector Laboratories) staining step in between. Hybridization to the probe arrays was detected by fluorometric scanning (Hewlett Packard Gene Array Scanner). Data was analyzed using Affymetrix GeneChin® version 2.0 and Expression Data Mining (EDMT) software (version 1.0), GeneExpress2000, and S-Plus.

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Tables 1 and 2 disclose those genes that are differentially expressed upon exposure to the named toxins and their corresponding GenBank Accession and Sequence Identification numbers, the identities of the metabolic pathways in which the genes function, the gene names if known, and the unigene cluster titles. The model code represents the various toxicity state that each gene is able to discriminate as well as the individual toxin type associated with each gene. The codes are defined in Table 4. The GLGC ID is the internal Gene Logic identification number.

Table 3 discloses those genes that are the human homologues of those genes in Tables 1 and 2 that are differentially expressed upon exposure to the named toxins. The corresponding GenBank Accession and Sequence Identification numbers, the gene names if known, and the unigene cluster titles of the human homologues are listed.

Table 4 defines the comparison codes used in Tables 1, 2, 3, and 5. Tables 5-5CC disclose the summary statistics for each of the comparisons performed. Each of these tables contains a set of predictive genes and creates a model for predicting the renal toxicity of an unknown, i.e., untested compound. Each gene is identified by its Gene Logic identification number and can be cross-referenced to a gene name and representative SEQ ID NO. in Tables 1 and 2. For each comparison of gene expression levels between samples in the toxicity group (samples affected by exposure to a specific toxin) and samples in the non-toxicity group (samples not affected by exposure to that same specific toxin), the tox mean (for toxicity group samples) is the mean signal intensity, as normalized for the various chip parameters that are being assayed. The non-tox mean represents the mean signal intensity, as normalized for the various chip parameters that are being assayed, in samples from animals other than those treated with the high dose of the specific toxin. These animals were treated with a low dose of the specific toxin, or with vehicle alone, or with a different toxin. Samples in the toxicity groups were obtained from animals sacrificed at the timepoint(s) indicated in the Table 5 headings, while samples in the non-toxicity groups were obtained from animals sacrificed at all time points in the experiments. For individual genes, an increase in the tox mean compared to the non-tox mean indicates up-regulation upon exposure to a toxin. Conversely, a decrease in the tox mean compared to the non-tox mean indicates down-regulation.

The mean values are derived from Average Difference (AveDiff) values for a particular gene, averaged across the corresponding samples. Each individual Average Difference value is calculated by integrating the intensity information from multiple probe pairs that are tiled for a particular fragment. The normalization multiplies each expression intensity for a given experiment (chip) by a global scaling factor. The intent of this normalization is to make comparisons of individual genes between chips possible. The scaling factor is calculated as follows:

- From all the unnormalized expression values in the experiment, delete the largest 2% and smallest 2% of the values. That is, if the experiment yields 10,000 expression values, order the values and delete the smallest 200 and largest 200.
  - 2. Compute the trimmed mean, which is equal to the mean of the remaining values.
  - Compute the scale factor SF = 100/(trimmed mean)

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The value of 100 used here is the standard target valued used. Some AveDiff values may be negative due to the general noise involved in nucleic acid hybridization experiments. Although many conclusions can be made corresponding to a negative value on the GeneChip platform, it is difficult to assess the meaning behind the negative value for individual fragments. Our observations show that, although negative values are observed at times within the predictive gene set, these values reflect a real biological

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phenomenon that is highly reproducible across all the samples from which the measurement was taken. For this reason, those genes that exhibit a negative value are included in the predictive set. It should be noted that other platforms of gene expression measurement may be able to resolve the negative numbers for the corresponding genes.

5 The predictive ability of each of those genes should extend across platforms, however. Each mean value is accompanied by the standard deviation for the mean. The linear discriminant analysis score (discriminant score), as disclosed in the tables, measures the ability of each gene to predict whether or not a sample is toxic. The discriminant score is calculated by the following steps:

#### 10 Calculation of a discriminant score

Let  $X_i$  represent the AveDiff values for a given gene across the non-tox samples, i=1...n. Let  $Y_i$  represent the AveDiff values for a given gene across the tox samples, i=1...t.

The calculations proceed as follows:

- 1. Calculate mean and standard deviation for  $X_i$ 's and  $Y_i$ 's, and denote these by  $m_x$ ,  $m_y$ ,  $s_v$ ,  $s_v$ .
- 15 s<sub>X</sub>,s<sub>Y</sub>.

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- 2. For all X<sub>1</sub>'s and Y<sub>1</sub>'s, evaluate the function  $f(z) = ((1/s_y)^* \exp(-.5*((z-m_y)/s_y)^2)) / (((1/s_y)^* \exp(-.5*((z-m_y)/s_y)^2)) + ((1/s_y)^* \exp(-.5*((z-m_y)/s_y)^2))).$
- 3. The number of correct predictions, say P, is then the number of  $Y_i$ 's such that  $f(Y_i) > .5$  plus the number of  $X_i$ 's such that  $f(X_i) < .5$ .
- 20 4. The discriminant score is then P/(n+t).

Linear discriminant analysis uses both the individual measurements of each gene and the calculated measurements of all combinations of genes to classify samples. For each gene a weight is derived from the mean and standard deviation of the toxic and nontox groups. Every gene is multiplied by a weight and the sum of these values results in a collective discriminate score. This discriminant score is then compared against collective centroids of the tox and nontox groups. These centroids are the average of all tox and nontox samples respectively. Therefore, each gene contributes to the overall prediction. This contribution is dependent on weights that are large positive or negative numbers if the relative distances between the tox and nontox samples for that gene are large and small numbers if the relative distances are small. The discriminant score for each unknown sample and centroid values can be used to calculate a probability between zero and one as to the group in which the unknown sample belongs.

### Example 2: General Toxicity Modeling

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Samples were selected for grouping into tox-responding and non-tox-responding groups by examining each study individually with Principal Components Analysis (PCA) to determine which treatments had an observable response. Only groups where confidence of their tox-responding and non-tox-responding status was established were included in building a general tox model (Table 5).

Linear discriminant models were generated to describe toxic and non-toxic samples. The top discriminant genes and/or EST's were used to determine toxicity by calculating each gene's contribution with homo and heteroscedastic treatment of variance and inclusion or exclusion of mutual information between genes. Prediction of samples within the database exceeded 80% true positives with a false positive rate of less than 5%. It was determined that combinations of genes and/or EST's generally provided a better predictive ability than individual genes and that the more genes and/or EST used the better predictive ability. Although the preferred embodiment includes fifty or more genes, many pairings or greater combinations of genes and/or EST can work better than individual genes. All combinations of two or more genes from the selected list (Table 5) could be used to predict toxicity. These combinations could be selected by pairing in an agglomerate, divisive, or random approach. Further, as yet undetermined genes and/or EST's could be combined with individual or combination of genes and/or EST's described here to increase predictive ability. However, the genes and/or EST's described here would contribute most of the predictive ability of any such undetermined combinations.

Other variations on the above method can provide adequate predictive ability. These include selective inclusion of components via agglomerate, divisive, or random approaches or extraction of loading and combining them in agglomerate, divisive, or random approaches. Also the use of composite variables in logistic regression to determine classification of samples can also be accomplished with linear discriminate analysis, neural or Bayesian networks, or other forms of regression and classification based on categorical or continual dependent and independent variables.

### 0 Example 3: Modeling Methods

The above modeling methods provide broad approaches of combining the expression of genes to predict sample toxicity. One could also provide no weight in a

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simple voting method or determine weights in a supervised or unsupervised method using agglomerate, divisive, or random approaches. All or selected combinations of genes may be combined in ordered, agglomerate, or divisive, supervised or unsupervised clustering algorithms with unknown samples for classification. Any form of correlation matrix may also be used to classify unknown samples. The spread of the group distribution and discriminate score alone provide enough information to enable a skilled person to generate all of the above types of models with accuracy that can exceed discriminate ability of individual genes. Some examples of methods that could be used individually or in combination after transformation of data types include but are not limited to: Discriminant Analysis, Multiple Discriminant Analysis, logistic regression, multiple regression analysis, linear regression analysis, conjoint analysis, canonical correlation, hierarchical cluster analysis, k-means cluster analysis, self-organizing maps, multidimensional scaling, structural equation modeling, support vector machine determined boundaries, factor analysis, neural networks, bayesian classifications, and resampling methods.

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# Example 4: Grouping of Individual compound and Pathology Classes

Samples were grouped into individual pathology classes based on known toxicological responses and observed clinical chemical and pathology measurements or into early and late phases of observable toxicity within a compound (Tables 5A-5CC). The top 10, 25, 50, 100 genes based on individual discriminate scores were used in a model to ensure that combination of genes provided a better prediction than individual genes. As described above, all combinations of two or more genes from this list could potentially provide better prediction than individual genes when selected in any order or by ordered, agglomerate, divisive, or random approaches. In addition, combining these genes with other genes could provide better predictive ability, but most of this predictive ability would come from the genes listed herein.

Samples may be considered toxic if they score positive in any pathological or individual compound class represented here or in any modeling method mentioned under general toxicology models based on combination of individual time and dose grouping of individual toxic compounds obtainable from the data. The pathological groupings and early and late phase models are preferred examples of all obtainable combinations of sample time and dose points. Most logical groupings with one or more genes and one or

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more sample dose and time points should produce better predictions of general toxicity, pathological specific toxicity, or similarity to known toxicant than individual genes.

Although the present invention has been described in detail with reference to

5 examples above, it is understood that various modifications can be made without
departing from the spirit of the invention. Accordingly, the invention is limited only by
the following claims. All cited patents, patent applications and publications referred to in
this application are herein incorporated by reference in their entirety.

TABUS 1:	SUMMARY.	11/2-11	13.0		Afty Pocket No. 44921 5089W Dos. No. 1993357
Sogranco ® No.	Montillor.	GenBert: Acel	Modal Goda	22, 40 4	Uniform Sheeter 160
1	6949	AA012785	la		IESTs
2	25098	AA108277	h,v	-	
					ESTs, Highly similar to includes exons
3	17312	AA108308	r	4	3 through 12 [M.musculus]
				1	ESTs, Moderately similar to NADH-
	16882	AA684537			ubiquinone oxidoreductase subunit Cl
	10002	AA004537	10	-	SGDH [H.sapiens] ESTs, Highly similar to alpha
5	6049	AA685178	l.		NAC/1.9.2. protein [M.musculus]
6	4426	AA685974	i.m	1	JESTs
	1	1	1		ESTs, Weakly similar to T23657
	1				hypothetical protein M01F1.6 -
7	21815	AA686423	9		Caenorhabditis elegans [C.elegans]
			l.	DNA-damage inducible	
8	1600	AA686470	-	transcript 3 DNA-damage inducible	DNA-damage inducible transcript 3
я	1599	AA686470	l.	transcript 3	DNA-damage inducible transcript 3
9	21997	AA799325	ti —	manscript 3	ESTs
	12.00		1		ESTs, Highly similar to AF132951 1
10	18396	AA799330	v	J.	CGI-17 protein [H.sapiens]
					ESTs, Weakly similar to ESR1 RAT
			1	l	ESTROGEN RECEPTOR
11	6581	AA799412	f,i		[R.norvegicus]
12	16538	AA799449	J <sub>k</sub>	1	ESTs, Weakly similar to nucleosome
12	10336	AA7 33448	<u> </u>	<del> </del>	assembly protein [R.norvegicus] ESTs, Moderately similar to CGI-116
13	23294	AA799472	lu		protein [H.sapiens]
14	18290	AA799497	r	1	IESTs
					ESTs, Moderately similar to hnRNP
15	18981	AA799523	e		protein [R norvegicus]
	1				ESTs, Weakly similar to TCPA RAT T-
			1.	I	COMPLEX PROTEIN 1, ALPHA
16 17	16993	AA799545 AA799560	h b		SUBUNIT [R.norvegicus]
18	16576	AA799570	d		ESTs ESTs
	10070	N130010	-		ESTS, Highly similar to TBB1 RAT
					TUBULIN BETA CHAIN
19	18361	AA799591	li_		[R.norvegicus]
20	17712	AA799598	Z		ESTs
22	18346	AA799718	1		ESTs
23	8768	AA799726	1		ESTs
24	11687	AA799732			ESTs, Highly similar to Dgcr6 protein
25	18349	AA799744	lu		[M.musculus] ESTs
26	17494	AA799751	n		ESTs
27	18360 .	AA799771	General		ESTs
28	18880	AA799801	w		ESTs
					ESTs, Weakly similar to serine
29	20998 .	AA799803	z		protease [R.norvegicus]
				1	ESTs, Highly similar to IRF7 MOUSE
30	21006	AA799861	c		INTERFERON REGULATORY
	21000	/VV/ 88001	-		FACTOR 7 [M.musculus] ESTs, Highly similar to DDRT helix-
	i				destabilizing prolein - rat
31	15011	AA799893	General		[R.norvegicus]
					ESTs, Highly similar to 60S
				1	RIBOSOMAL PROTEIN L18A
32	20811	AA799899	а ,		[R.norvegicus]
			1		ESTs, Weakly similar to S52675
					probable membrane protein YDR109c
33	23202	AA799971	General		yeast (Saccharomyces cerevisiae) [S.cerevisiae]
	1-0202	7017 5557 1	Conciai		ESTs, Highly similar to glycogen
14	4832	AA800190	ь ]		phosphorylase [R.norvegicus]
35	21656	AA800202	d		ESTs

TABLE 0: 8				P) 201	Ally, Docket No. 44921-533300
-			1		Dog. No. 17993317
Sequence 10 No.	idon <b>if</b> fer	GenEtnik Accel (Roft Seep ID		Gazo Name	Unitrano Chester VII o
					ESTs, Weakly similar to T15476 hypothetical protein C09F5.2 -
36	18433	AA800218	j.y.z		Caenorhabditis elegans (C.elegans)
37	16386	AA800235	†u		ESTs
38	18442	AA800258	h,k		ESTs
39	21092	AA800380	ļ		ESTs, Weakly similar to CORTICOSTEROID 11-BETA- DEHYDROGENASE, ISOZYME 1 [R.norvegicus]
40	17325	AA800587	General		ESTs, Weakly similar to glutathione peroxidase [R.norvegicus]
	1		Icc,		Rattus norvegicus gene for TIS11,
41	13930	AA800613	General		complete cds
42 42	21372	AA800593 AA800593	v		ESTs ESTs
43	18161	AA800593 AA800701	s k		ESTs
44	6595	AA800753	w	1	ESTS
45	13348	AA800928	General	<del> </del>	ESTs
	1.00.0	7.000020			ESTs, Highly similar to H2A1 RAT
46	23115	AA801165	0,9	1	HISTONE H2A.1 [R.norvegicus]
47	12399	AA801307	General		ESTs
48	7543	AA801395	General		ESTS
49	24237	AA817726	t,Genera	-	ESTs ESTs, Moderately similar to T25763
50	11215	AA817921			hypothetical protein F46F11.4 - Caenorhabditis elegans (C.elegans)
51	5985	AA818005	lg l		ESTs Caenornabolitis elegans (C.elegans)
J1	3303	AND 10000	19		ESTs, Highly similar to rabkinesin-6
52	11338	AA818016	x		[M.musculus]
53	2845	AA818026	k,Genera	1	ESTs, Weakly similar to PRSC MOUSE 26S PROTEASOME REGULATORY SUBUNIT S12 [M.musculus]
54	16756	AA818089	i,k, General		ESTs, Highly similar to glycyl-tRNA synthetase [H.sapiens]
55	17771	AA818224	e,g,p, General		ESTs, Highly similar to TBB1 RAT TUBULIN BETA CHAIN [R.norvegicus]
					ESTs, Moderately similar to
56	6522	AA818261	g,m		autoantigen p542 [H.sapiens]
57	5924	AA818359	У		ESTs
58 59	7806 8237	AA818421	b,aa v		ESTs
60	17434	AA818512 AA818574	h		ESTs ESTs
61	8728	AA818615	General		ESTs
62	6054	AA818658	b.v.cc, General	Diphtheria toxin receptor (heparin binding epidermal growth factor - like growth factor)	Diphlheria toxin receptor (heparin binding epidermal growth factor - like growth factor)
				alactor)	ESTs, Moderately similar to S65785
63	11590	AA818721	d		mel-13a protein - mouse [M.musculus
64	4291	AA818741	q,Genera		ESTs
65	4330	AA818747	o,General		ESTs
66	19723	AA818761	v,General		ESTs
67	13684	AA818770	h,j,l,m		Rattus norvegicus serine protease gene, complete cds
58	6322	AA818801	k		ESTs
69	7690	AA818875	General	uroguanylin	uroguanylin
70	4952	AA818907	q,General		ESTs
71	6094	AA818911	t		ESTs ESTs, Weakly similar to HP33
72 73	10985	AA818998 AA819008	o,General		[R.norvegicus] ESTs
3	10120	LVN01900B	11		Ico19

		100			Affy, Docket No. 44921-51 Doc. No. 179
Service	1000	GanBank Ace/	Wodal		Total state the
مثلاه الأ	dealifer	,Raf. Seq (D	©ccio	Sens Name	Unligate Christer Title
			T		ESTs, Weakly similar to testis s
74	2586 6438	AA819081 AA819269	C		protein [R.norvegicus] IESTs
77	24721	AA819306	d,w	<del> </del>	ESTS
					Rattus norvegicus mRNA for in
78	6250	AA819376	о,у		hexakisphosphate kinase, comp cds
			1.		ESTs, Weakly similar to JC570
81	6281	AA819517 AA819526	₩		HYA22 protein [H.sapiens]
82	6551	AA819558	<del> </del>	<del> </del>	ESTS
	1		1		ESTs, Moderately similar to dJ3
83	6723	AA819653	jr		[H.sapiens]
84	14958	AA819744	aa		ESTs
	1		1	1	ESTs, Weakly similar to HS9B I HEAT SHOCK PROTEIN HSP 9
85	19433	AA819776	v	J	BETA [R.norvegicus]
86	6204	AA819889	aa		ESTs
			1	HMm:inosine 5'-phosphate	ESTs, Weakly similar to guanos monophosphate reductase
87	22820	AA848315	General	dehydrogenase 2	[R.norvegicus]
			T		ESTs, Weakly similar to T26686
88	6614	AA848389	hh		hypothetical protein Y38F1A.6 - Caenorhabditis elegens [C.eleg
89	21125	AA848437	General	<del> </del>	IESTs (C.eleg.
					ESTs, Moderately similar to
			1		IF4B_HUMAN EUKARYOTIC
90 :	23504	AA848496			TRANSLATION INITIATION FA
	20004	1	1		ESTs, Weakly similar to FMO1
					DIMETHYLANILINE
91	18532	AA848675 AA848738	lc c	<del> </del>	MONOOXYGENASE [R.norvegi
	21140	70010700	1		12316
					ESTs, Moderately similar to AF1
93	16128	AA848807 AA848929	0	<del></del>	1 CGI-12 protein [H.sapiens] [ESTs
	17339	AA849497	General		ESTS
96	11727	AA849518	1		ESTs
07	21275	44040700	i,l,m,		-
97 98	16678	AA849796 AA849827	General	<del> </del>	ESTs ESTs
	8515	AA849917	0	<del> </del>	ESTS
100	18447	AA849939	General		ESTs
101	12130	AA850037	P	and an action of	ESTs
102	23981	AA850040	x.aa	cyclase-associated protein homologue	cyclase-associated protein homo
-		1	1	1	ESTs, Moderately similar to RB1
			1.		MOUSE RAS-RELATED PROTE
103	13615	AA850364	1		RAB-17 [M.musculus] ESTs, Highly similar to hypotheti
105	2637	AA850893	×		protein (H.sapiens)
106	22093	AA850909	d		ESTs
107 ,	21766	AA850916	С		ESTs
108	2847	AA850919	l		ESTs, Weakly similar to dithioletl inducible gene-1 [R.norvegicus]
	==::		i		Rattus norvegicus mRNA for ras-
			l.		GTPase-activating protein SH3-
	12162 9514	AA850975 AA850978	General		domain binding protein, partial co
···	OV 14	rvnu30976	Corner al		ESTs, Highly similar to molybdop
	3924	AA851017	e,q		synthase large subunit [M.muscu
111					
	3925	AA851017	o.General		ESTs, Highly similar to molybdop synthase large subunit [M.muscu

TANDUE US E	SUMMARY		16.0		Aug. Dooked No. 44929-503600 Doc. No. 17933477
Sequence	1000	GenBank Acci	Model		
D Xo.	Montflier	Ref. SegiD.	9000	Gene Name	Unigeno Givetor Titlo
					ESTs, Weakly similar to T28050
113	19187	******	General		hypothetical protein ZK856.11 -
113	1918/	AA851230	General	<del> </del>	Caenorhabditis elegans [C.elegans] ESTs, Highly similar to ubiquitin
	1	1			specific protease UBP43
114	19189	AA851237	С		[M.musculus]
115	15386	AA851241	m		ESTs, Highly similar to hypothetical
110	15386	AA851241	<del>  m</del>		protein [H.sapiens] ESTs, Weakly similar to A61382
	1		9,1,		phosphorylation regulatory protein HF
116	21462	AA851261	General		[10 [H.sapiens]
117	21471	AA851343	General		ESTs
	1		1	HHs:NADH dehydrogenase	
	1			(ubiquinone) Fe-S protein 8 (23kD) (NADH-coenzyme Q	NUIM_HUMAN NADH-UBIQUINONE OXIDOREDUCTASE 23 KD SUBUNI
118	16902	AA851379	b	reductase)	PRECURSOR [H.saplens]
		1	1		ESTs, Moderately similar to kinesin-
119	23376	AA851392	i,x		like DNA binding protein [H.sepiens]
440					ESTs, Moderately similar to kinesin-
119	13349	AA851392 AA851417	General		like DNA binding protein [H.sapiens]
121	21527	AA851733	r.u		ESTs ESTs
	1	141001130	i,o,u,		Rattus norvegicus osteoactivin mRNA
122	4048	AA851814	General		complete cds
					ESTs, Highly similar to SSRA HUMAN
	1				TRANSLOCON-ASSOCIATED
123	10561	AA851871	bb		PROTEIN, ALPHA SUBUNIT
23	10361	AA0310/1	DD		PRECURSOR [H.saplens] Rattus norvegicus CaM-kinase II
124	17411	AA858621	j.y		Inhibitor alpha mRNA, complete cds
					ESTs. Weakly similar to MCM6 RAT
					DNA REPLICATION LICENSING
125	1801	AA858636	k,s,x,bb		FACTOR MCM6 [R norvegicus]
27	19484		p e		ESTs ESTs
28	6360		d		ESTS
					ESTs, Weakly similar to Reg receptor
29	17334	AA858704	Ρ		[R.norvegicus]
					ESTs, Weakly similar to dJ413H6.1.1
30	13219		9		[H.sapiens]
31 ,	13219		a I.m.Generi		ESTs
32	6384		al		ESTs
	-				ESTs, Highly similar to p40 seven-
					transmembrane-domain protein
34 .	13412	AA858830	ρ		[M.musculus]
35 , 36	7279 18217	AA858892 AA858930	-		ESTs
30	18217	AA858930			ESTs ASPARAGINYL-TRNA
			- 1	HHs:asparaginyl-tRNA	SYNTHETASE, CYTOPLASMIC
37	5867	AA858953	v,General	synthetase	[H.sapiens]
					ESTs, Moderately similar to 156526
			1		interleukin 1 receptor type I - rat
38	14479 6431	AA858969 AA859085			[R.norvegicus]
39	6431	AA859085			ESTs
40	17361	AA859114	o,General		ESTs
41	21025	AA859241		outer membrane protein	outer membrane protein
42	10076	AA859271			ESTs
					ESTs, Weakly similar to CYSR RAT
13	21791	AA050000	. 1		CYSTEINE-RICH PROTEIN 1
10	£ 1/ 91	AA859333	c.Gener		[R.norvegicus]
44	16314		c,Gener		ESTs
45	18862	AA859520			ESTs
46		AA859545 r	-		ESTs

.

TABLE 1: S	UMMARY				Affy. Dooket No. 4/1921-5030 Dog, No. 17978
Sagranco Ondo	Maniffer	GonBank Asso Roft, Son (b)	Model Octo	Gena Namo	Uniform Chester Tills
		The same of the sa			Rattus norvegicus late gestation lu
147	19894	AA859581	s		protein 1 (Lgl1) mRNA, complete of
148	14353	AA859585	h		IFSTs
			1	<del></del>	ESTs, Weakly similar to DnaJ
149	16318	AA859648	h		homolog 2 [R.norvegicus]
150	17316	AA859652	General	1	IESTs [K:norvegicus]
151	19067	AA859663	n,q		ESTS
152	22406	AA859680	in	1	ESTs
153	20599	AA859690	x		ESTS
154	14261	AA859693			ESTs, Weakly similar to YNH2_CAEEL HYPOTHETICAL 3 KD PROTEIN R107.2 IN
134	14201	Wwopagan	10		CHROMOSOME III [C.elegans]  ESTs. Highly similar to PPOX MOI
155	14138	AA859700	v	HHs:protoporphyrinogen oxidase	PROTOPORPHYRINOGEN OXIDA
155	14139 .	AA859700	v	HHs:protoporphyrinogen oxidase	ESTs, Highly similar to PPOX MOU PROTOPORPHYRINOGEN OXID/ [M.musculus]
					ESTs, Weakly similar to IF4E MOU EUKARYOTIC TRANSLATION INITIATION FACTOR 4E
157	22374	AA859804	ļ	<del> </del>	[R.norvegicus]
					ESTs, Moderately similar to LYOX
58	22385	AA859805	L.		RAT PROTEIN-LYSINE 6-OXIDAS
	22773	AA859805 AA859885	b,k		PRECURSOR [R.norvegicus]
	22816	AA859898	n k.x.z	<del> </del>	ESTs
	11891	AA859898 AA859926	x,x,z		ESTs
01	11091	AA659920	*		ESTS
62	23070	AA859942	L.		ESTs, Highly similar to N-
	23121	AA859948	k		myristoyitransferase 1 [M.musculus JESTs
1	23121	707033540	cc.Gener		ES 18
64	23166	AA859954	al		ESTs
	18468	AA859966	aa		ESTs, Weakly similar to Edp1 prote [M.musculus]
166	23336	AA859981	q	HHs:inositol(myo)-1(or 4)- monophosphatase 2	MYO-INOSITOL-1(OR 4)- MONOPHOSPHATASE [R.norvegicus]
67	4222	AA860024	a.bb		ESTs, Highly similar to EF1G_HUMAN ELONGATION FACTOR 1-GAMMA [H.sapiens]
			u,x,Gener		Rattus norvegicus mRNA for class
68	13974	AA860030	al		beta-tubulin, complete cds
				Hyaluronan mediated motility	EST, Hyaluronan mediated motility
69	7090 -	AA860039	х	receptor (RHAMM)	receptor (RHAMM)
					ESTs, Moderately similar to T08661
					anti-silencing protein ASF1 homolog
	23769	AA860055	k,x		DKFZp547E2110.1 [H.sapiens]
71	16323	AA866240	w		EST
72	4462	AA866264	General		ESTs, Weakly similar to PE2R RAT ALPHA-HYDROXYSTEROID DEHYDROGENASE [R.norvegicus]
73	15884	AA866276	k		ESTs, Weakly similar to A60543
				4-hydroxyphenylpyruvic acid	protein kinase [R.norvegicus] 4-hydroxyphenylpyruvic acid
/	17742	AA866302	c,y	dioxygenase Solute carrier family 4.	dioxygenese
75	16333	AA866414	a,h	member 1, anion exchange protein 1 (kidney band 3)	Solute carrier femily 4, member 1, anion exchange protein 1 (kidney
,,	10000	N10004 14	0,11	protein i (kioney band 3)	band 3)
	ì		- 1		ESTs, Moderately similar to AF1418
76	18918	AA866444	p.q		1 oligophrenin-1 like protein [H.sapiens]
			J.m.y.z		ESTs ESTs

WO 02/095000

MANELLE NO. 5	YELVMANDE				Ally, Docket No. 43921-50891 Doc No. 179339
Sortioneo ID No.4	Monthler	Goodbank Accel Ref. Seq 10	Model Gode	Gance Name	Unforce Cluster Title
179	16013	AA866482			ESTs, Highly similar to FGD1 MOUS PUTATIVE RHO/RAC GUANINE NUCLEOTIDE EXCHANGE FACTO [M.musculus]
180	26036	AA874849	1	<del></del>	[M.mascalas]
181	16059	AA874857	h		ESTs
182	16069	AA874873	r		ESTs
	1		1		ESTs, Weakly similar to RNA bindin
183 184	21633	AA874951	If		protein [H.sapiens]
104	16192	AA874995	w	ļ	ESTs
185	16254	AA875025			ESTs, Highly similar to RET3 BOVIN RETINOIC ACID-BINDING PROTEI I, CELLULAR (R. norvegicus)
			cc,Gene	r	
186	16312	AA875032	al		ESTs
187	20701	AA875097	b		Rat alpha-fibrinogen mRNA, 3' end
188	16416	AA875098	bb		ESTs, Highly similar to ARF3_HUM/ ADP-RIBOSYLATION FACTOR [R.norvegicus]
189	16419	AA875102	bb		ESTs, Highly similar to RUXE_HUMAN SMALL NUCLEAR RIBONUCLEOPROTEIN E [M.musculus]
103	10415	PO4073102	li.m.	<del></del>	[M.musculus]
190	15313	AA875126	General	1	ESTs
	1.00.10	101010120	Ochicia		ESTs, Weakly similar to AF151834
191	10936	AA875146	w	]	CGI-76 protein [H.sapiens]
192	18084	AA875186	h		ESTs
					ESTs, Highly similar to IF39_HUMAN EUKARYOTIC TRANSLATION INITIATION FACTOR 3 SUBUNIT 9
193	15371	AA875205	ļu	j	[H.sapiens]
194	15401	AA875257	x,z		ESTs
				HHs:NADH dehydrogenase (ubiquinone) Fe-S protein 7 (20kD) (NADH-coenzyme Q	ESTs, Highly similar to NUKM
195	15410 .	AA875268	p,s	reductase)	HUMAN, partial CDS [H.sapiens]
196	15420	AA875286	f		ESTs
197	15446	AA875327	s,w		ESTs
198	7936	AA875495	b,Genera		ESTs ESTs, Highly similar to includes exon
199	17314	AA875509	i,l,m		3 through 12 [M.musculus]
100					ESTs, Highly similar to MLES RAT MYOSIN LIGHT CHAIN ALKALI, SMOOTH-MUSCLE ISOFORM
	24472 15587	AA875523 AA875577	K		[R.norvegicus] ESTs
		AA875620	General		ESTs
		AA875620	General		ESTS
			f.cc.Gene		20.0
		AA891041	ral	jun B proto-oncogene	jun B proto-oncogene ESTs, Moderately similar to R33729
04	24814	AA891209	f,p		1, partial CDS [H.saplens]
					ESTs, Weakly similar to AF151373 1 nucleolin-related protein NRP
05	21930	AA891322	d ,		[R.norvegicus]
06	17225	AA891553	h		ESTs, Highly similar to eIF3 p66 [M.musculus]
					ESTs, Weakly similar to S67314 regulatory protein RMS1 - yeast (Saccharomyces cerevisiae)
		AA891571	j,m		[S.cerevisiae]
80	9071	AA891578	b		ESTs
09	19321	AA891666	u i	melanoma antigen, family D,	melanoma antigen, family D, 1

TABLE 1: 8	SUMMARY				Ally, Docket No. 44924-50997 Doc. No. 179369
Sequence Divid	Maniffar	God Bend: Accel Red. Sec 10	Modell Code	Gene Xamo	Onlygano Cluster Tillo
210	17693	AA891737	i.l.m.n.y.		ESTs
211	17256	AA891739	General		ESTs, Weakly similar to T22521 hypothetical protein F52H3.5 - Caenorhabditis elegans [C.elegans]
213	18269	AA891769	General		ESTs, Moderately similar to FINC RU FIBRONECTIN PRECURSOR [R.norvegicus]
214	9905	AA891774	s,bb, D239Ger eral		ESTs
215	17061	AA891812	d		ESTs, Highly similar to alpha-adduci hypertensive phenotype [R.norvegicus]
216	7050	AA891824	h	1	Rattus norvegicus clone ZG52 mRN.
217	4463	AA891831	General		ESTs, Weakly similar to PE2R RAT 2 ALPHA-HYDROXYSTEROID DEHYDROGENASE [R.norvegicus]
					ESTs, Highly similar to muscle protein
218 219	14289 20523	AA891838 AA891842	r,cc	ļ	684 [M.musculus] ESTs
220	17779	AA891914			ESTs, Moderately similar to ACY1 HUMAN AMINOACYLASE-1
221	17438	AA891914 AA891943	g,s,z General	<del> </del>	[H.sapiens]
222	22862	AA891944	P		ESTs
223	1159	AA891949	e,z		ESTs
224	4473	AA891965	General		ESTs, Weakly similar to T31496 hypothetical protein Y116A8C.25 - Caenorhabditis elegans [C.elegans]
225	6362	AA892053	f.j.l.m		ESTs, Highly similar to chromatin structural protein homolog Supt5hp [M.musculus]
226	9037	AA892066	У		ESTs. Weakly similar to proline
227	19469	AA892112	General	j	dehydrogenase [M.musculus]
228	14595	AA892128	o,t,v		ESTs
229	16527	AA892154	cc		ESTs
230	20917	AA892173	bb		EST
231	20917	AA892238	h		ESTs. Weakly similar to PC4221
232	2357	AA892268	la		protein-tyrosine kinase (R.norvenicus
233	18183	AA892271	h		ESTs
234	6523	AA892299	d		ESTs
236	13647	AA892367	a		ESTs, Highly similar to RL3 RAT 60S RIBOSOMAL PROTEIN L3 [R.norvegicus]
237	3473	AA892378	v		ESTs, Highly similar to AF151893 1 CGI-135 protein [H.sapiens]
238	17682	AA892382	j.p,s,x, General		ESTs, Moderately similar to AF18557 1 putative N-acelyltransferase Camello 4 [R.norvegicus]
				Aldolase B, fructose-	
239	14754	AA892395	g.s u	biphosphate	Aldolase B, fructose-biphosphate ESTs
240	17439	AA892414 AA892446	ľ		ESTS ESTS
					ESTs, Moderately similar to UCRY_HUMAN UBIQUINOL- CYTOCHROME C REDUCTASE COMPLEX 6.4 KD PROTEIN
242	16469	AA892462	Р		[H.sapiens] Rattus norvegicus mRNA for prostasii
243	13609	AA892468	i,General n,v,Gener		precursor, complete cds Rattus norvegicus mRNA for prostasie
43	13610	AA892468	al		precursor, complete cds

TRABUE 1:	SUMMARY			*	AND Decelos No. 49929-50990
the same is the same	-	No. of Concession, Name of Street, or other	-	la .	Dots, No. 17/0388
Goograpies	24 32	@en@enkAed	Model		Mark to the
(D) No. 1/2	Contillar	Rof Septo		Grana Namo	Printers Obesite Title
					ESTs, Highly similar to HISTONE
244	9254	AA892470	n,u		H2A.Z [R.norvegicus]
245	11991	AA892483	8		ESTs
		1	1		ESTs, Moderately similar to LYAG
		Į.			MOUSE LYSOSOMAL ALPHA-
		1	l.	1	GLUCOSIDASE PRECURSOR
246	1522	AA892486	df		[M.musculus]
247	11994	AA892507	aa	1	ESTs, Moderately similar to \$63540
248	23888	AA892520	w	<del></del>	protein DS 1, 24K [H.sapiens]
248	23889	AA892520	h	·	IESTs
249	8599	AA892522	IP	<del></del>	IESTs .
250	15154	AA892532	P		R.norvegicus (Wistar) CaBP1 mRNA
			1		ESTs, Highly similar to multi-
	1		1		membrane spanning polyspecific
251	17468	AA892545	r	1	transporter [M.musculus]
	1		1		ESTs, Highly similar to ras-GTPase-
200					activating protein SH3-domain bindir
252	11203	AA892554	f,h a.bb.		protein [M.musculus]
253	18906	AA892561	General		ESTs, Moderately similar to PTD012
200	10900	AA092301	General	-	[H.sapiens] R.norvegicus mRNA for nucleolar
254	19327	AA892562	f.j.y.z	1	protein NAP57
255	118274	AA892572	p	-	ESTs
256	4512	AA892578	CC		IESTs
	1		1		ESTs, Highly similar to RL8_HUMAN
	1		1	1	60S RIBOSOMAL PROTEIN L
257	15876	AA892582	w	1	[R.norvegicus]
258	19085	AA892598	General		ESTs
258	19086	AA892598	General		ESTs
	1		1.		ESTs, Highly similar to H4_HUMAN
259 260	20065	AA892647 AA892666	1	-	HISTONE H4 [R.norvegicus]
261	23783	AA892666 AA892773	a,n		ESTs ESTs
201	23/63	AAB92773	<del> "</del>	<del> </del>	Rat mitochondrial proton/phosphate
262	17549	AA892776	f,z	1	symporter mRNA, complete cds
263	13542	JAA892798	Ь	1	ESTs .
	1			HHs:glyoxylate	ESTs, Weakly similar to SERA RAT I
			1	reductase/hydroxypyruvate	3-PHOSPHOGLYCERATE
264	22537	AA892799	General	reductase	DEHYDROGENASE [R.norvegicus]
			1	HHs:glyoxylate	ESTs, Weakly similar to SERA RAT I
			i	reductase/hydroxypyruvate	3-PHOSPHOGLYCERATE
264	22539	AA892799	v	reductase	DEHYDROGENASE [R.norvegicus]
	1		1	HHs:9lyoxylate	ESTs, Weakly similar to SERA RAT I
264	22538	AA892799	General	reductase/hydroxypyruvate reductase	DEHYDROGENASE [R.norvegicus]
.04	22330	,10002100	Control	reductase	ESTs, Weakly similar to S70642
					ubiquitin ligase Nedd4 - rat
265	6951	AA892820	h		[R norvegicus]
	1		1	1	Rattus norvegicus aiar mRNA for
			1	i	androgen-inducible aldehyde
266	23322	AA892821	j,z	J	reductase, complete cds
					ESTs, Weakly similar to T29904
	ı		f		hypothetical protein F59A3.3 -
267	17923	AA892843	lf		Caenorhabditis elegans (C.elegans)
	1				ESTs, Weakly similar to procollagen-
68	22871	AA892859	m		lysine 5-dioxygenase [R norvegicus]
69	0000		p.v.	1	
:09	9053	AA892861	General		ESTs. Weakly similar to EF2 RAT
		1		1	ESTs, Weakly similar to EF2 RAT ELONGATION FACTOR 2
70	16482	AA892940	w	ı	[R.norvegicus]
	1.0402	rrnogz940	<del>-</del>	l	Rattus norvegicus HP33 mRNA.
71	12020	AA893035	li.v		complete cds
72	3863		General		IESTs
73	13332		i.General		ESTS

ID No. 274 275 276 277	i dentifiar				Ally, Docket No. 44921-593900
Soquenco 10 No. 274 275 276 277	(Contifer	N CONTRACTOR			Dog. No. 1793997
ID No. 274 275 276 277	(Contifer		E SV		Ecos Nes Instanti
274 275 276 277		Gentlants Acci	Model	S - Marin	
275 276 277		Rof. Seg (D	@ode_	Frenz Manag	Serial proprietation (1990)
276 277	21305 16591	AA893082 AA893191	General		ESTs ESTs
277	17447	AA893191 AA893192	General	<b></b>	ESTS
	3876	AA893205	n		IESTs .
278		11.000000	<u> </u>		ESTs, Weakly similar to
278				1	CALM_HUMAN CALMODULIN
	3878	AA893230	General		[R.norvegicus]
				Acyl CoA synthetase, long	
279	20986	AA893242	9	chain	Acyl CoA synthetase, long chain
280	16168	AA893280	i,z, General		ESTs, Moderately similar to adipophilin (H.sapiens)
281	3886	AA893289	i,m,y		ESTs
282	15209	AA893327	ly .		ESTs
283	17800	AA893436	cc		ESTs
1			1	1	ESTs, Weakly similar to LIS1 MOUS
			i		PLATELET-ACTIVATING FACTOR ACETYLHYDROLASE IB ALPHA
284	17836	AA893626	h		SUBUNIT (R.norvegicus)
285	9084	AA893717	×		ESTs .
286	22731	AA893743	d	1	ESTs
					ESTs, Moderately similar to
		1		L	SYTC_HUMAN THREONYL-TRNA
			l	HHs:threonyl-tRNA	SYNTHETASE, CYTOPLASMIC
287	12031 17897	AA893860 AA893905	lk .	synthetase	[H.sapiens] [ESTs
	3447	AA893982	là		ESTs
	22583	AA894009	n		
291	10540	AA894027	1		EST
					ESTs, Highly similar to A55748
292	4569	AA894059	x		protein kinase [M.musculus]
1					ESTs, Weakly similar to APP2 RAT AMYLOID-LIKE PROTEIN 2
293	18419	AA894130	d		PRECURSOR [R.norvegicus]
	17336	AA894297	li -	1	ESTs
	19120	AA894318	fj		ESTs
	19762	AA899113	1		ESTs
297	18286	AA899219	U		Rat mRNA for beta-tubulin T beta15
1		1	ļ	1	ESTs, Weakly similar to T26581 hypothetical protein Y32B12A.3 •
298	22051	AAB99498	lw	1	Caenorhabditis elegans [C.elegans]
i					IESTs, Weakly similar to T26581
			I		hypothetical protein Y32B12A.3 -
	22052	AA899498	9		Caenorhabditis elegans [C.elegans]
	21628 4262	AA899563 AA899590	aa		ESTs ESTs
300	9202	WW088280	<del> </del>	receptor activity modifying	COIS
301	4661	AA899709 .	t.General	protein 3	receptor activity modifying protein 3
	21354	AA899721	q	1	ESTs
			l		Rattus norvegicus epidermal growth
			_		factor receptor related protein (Errp)
	17905 15231	AA899762	General		mRNA, complete cds
304	10231	AA899840	r	topoisomerase (DNA) II	ESTs
305	23778	AA899854	c,k,x	alpha	topoisomerase (DNA) II alpha
	22060	AA899898	b		ESTs
307	9114	AA899951 .	v,General		ESTs
308	8988	AA900148	1		ESTs
			l		Rattus norvegicus mRNA for
309	11841	AA900247	v		Hsp70/Hsp90 organizing protein
					ESTs, Highly similar to ALPHA-2- MACROGLOBULIN PRECURSOR
310	1725	AA900290	cc		[R.norvegicus]
	1747	AA900465	General		ESTs
	20988	AA900562	0		ESTs

	Common a man	THE RESERVE AND LABOR.	To Bernard Williams		
TRANSPILLE (18)	SUMMARY				Ally Docket No. 44921-5039
Sequenco	E EAST OF	GonBank Acci	Model	Barrer .	204 10. 1/505
ID No.	(Menuller	Ref. Segulo	9000	Gamo Nermo	Unite prio Cluster Title
The same of the sa	identities.	New Deciment	Code	Seita Kenna	
					ESTs, Weakly similar to T20702 hypothetical protein F10C2.6 -
315	12420	AA901017	ь		Caenorhabditis elegans [C.elegans
316	4849	AA901155	S		Rattus norvegicus CDK105 mRNA
1					ESTs, Highly similar to IF2B_HUM
					EUKARYOTIC TRANSLATION INITIATION FACTOR 2 BETA
317	3959	AA901338	General		SUBUNIT [H.sapiens]
			1		ESTs, Highly similar to ATP-specifi
			1.	1	succinvi-CoA synthetase beta sub-
318 319	22846	AA923982 AA923999	la,d		[M.musculus]
319	4093	AVASTABAR	k cc.	·	ESTs
320	21546	JAA924188	General	1	ESTS
	1	1	1	1	
321	24192	AA924210	n,Genera		ESTs
322	4933	AA924301	g,i,Gener		FST
VEL	14003	MA324301	di	<del> </del>	ESTs, Moderately similar to
	1	ı			NO56 HUMAN NUCLEOLAR
323	4944	AA924405	I,General		PROTEIN NOP56 [H.sapiens]
324	4948	AA924428	r		ESTs
			1		ESTs, Weakly similar to NPT2 RAT
				1	RENAL SODIUM-DEPENDENT PHOSPHATE TRANSPORT
325	4949	AA924432	General		PROTEIN 2 [R.norvegicus]
326	18891	AA924598	e		ESTs
				HHs:glyoxylate	ESTs, Weakly similar to SERA RAT
327	22540	AA924630	v.General	reductase/hydroxypyruvate reductase	3-PHOSPHOGLYCERATE
V4.1	122010	MA924030	V,General	HHs:glyoxylate	DEHYDROGENASE [R.norvegicus] ESTs, Weakly similar to SERA RAT
	Į.			reductase/hydroxypyruvate	3-PHOSPHOGLYCERATE
327	22541	AA924630	General	reductase	DEHYDROGENASE [R.norvegicus]
328 329	23123	AA924766 AA924794	k x		ESTs
330	4067	AA924813	g.p		ESTs ESTs
331	2888	AA924902	r,General		ESTs
					ESTs, Highly similar to sec7 domain
332	18130	AA924964	d		family member [H.sapiens]
333	23141	AA925019	r		ESTs
	1				ESTs, Weakly similar to MCT7 RAT MAST CELL PROTEASE 7
334	23195	AA925026	General		PRECURSOR (R.norvegicus)
			f,aa,		The state of the s
335	21458	AA925049	General		ESTs
	1				ESTs, Moderately similar to S20710
336	5073	AA925061	lm l		hypothetical protein, 16K - mouse [M.musculus]
	1				[m.mosculus]
37	14790	AA925087	o,General		ESTs
					EST, Highly similar to T50621
38	5089	AA925126	.		hypothetical protein DKFZp762O076
	3000	MA20120	9		[H.sapiens] ESTs, Moderately similar to BHMT
					RAT BETAINE-HOMOCYSTEINE S
					METHYLTRANSFERASE
39	23261	AA925145	k,General		[R.norvegicus]
			1		ESTs, Moderately similar to
140	17363	AA925150	a		neurodegeneration-associated prote 1 [R.norvegicus]
41	23448	AA925167	ř d		ESTs
42	23159			I-kappa-B-beta	I-kappa-B-beta
43	21500		k		ESTs
	22479 21151	AA925418 AA925539	t		ESTs
	10112	M250039 ]	io J		ESTs

WASUE OF	SUMMARY			4	Any, Docket No. 44021-51600
		1000		1	Dos. No. 179339
Segmen DNo.		SonBank Ace/ Raf. Soq ID	Model Gode	Gono Namo	July Chater Title
346	16944	AA925541	ſ	heterogeneous nuclear ribonucleoprotein L	heterogeneous nuclear ribonucleoprotein L
346	16945	AA925541		heterogeneous nuclear ribonucleoprotein L	heterogeneous nuclear ribonucleoprotein L
347	17514	AA925554	bb	HHs:succinate dehydrogenase complex, subunit A, flavoprotein (Fp)	ESTs, Highly similar to DHSA_HUMAN SUCCINATE DEHYDROGENASE (H.sapiens)
348	5183	AA925662	i,General	1	ESTs
349	23189	AA925844	r		ESTs
350	23190	AA925863	99		ESTs, Highly similar to IMB3_HUMA IMPORTIN BETA-3 SUBUNIT [H.sapiens]
351	5252	AA926051	General		EST
352	22967	AA926080	h,cc		ESTs
353	17157	AA926129	b	1	ESTs
354	13411	AA926196	u,General		ESTs
355	5295	AA926247	General	putative potassium channel TWIK	putative potassium channel TWIK
356	22928	AA926262	General		ESTs, Moderately similar to NEURONAL PROTEIN 3.1 [M.musculus]
357	8948	AA926316	r		ESTs, Moderately similar to T13963 formin related protein, lymphocyte specific - mouse [M.musculus]
358	21798	AA926365	aa		ESTs, Moderately similar to AF15182 1 CGI-69 protein [H.sapiens]
359	9942	AA942697	s		ESTs
360 361	6039	AA942716	x,General		ESTs, Highly similar to HN1 [M.musculus]
362	23005	AA942745 AA942770	g.o,w		ESTs
363	21318	AA942774	General		ESTs ESTs
			General		ESTs, Weakly similar to T26686 hypothetical protein Y38F1A.6 -
364	6691	AA942889 AA943028	c		Caenorhabditis elegans [C. elegans] ESTs, Highly similar to KFMS RAT MACROPHAGE COLONY STIMULATING FACTOR I RECEPTOR PRECURSOR [R.norvegicus]
366	22142	AA943066	р		ESTs, Weakly similar to p68 RNA helicase [R.norvegicus]
967	21993	AA943149	v,General,		ESTs, Weakly similar to T00084 hypothetical protein KIAA0512 [H.sapiens] ESTs, Weakly similar to T08666
68	9061	AA943508	General		hypothetical protein DKFZp547N0510.1 [H.sapiens]
69	24390	AA943531	b.j.n.y		ESTs, Weakly similar to VIL1 MOUSE VILLIN [M.musculus]
70	13976		f,s,x		Rattus norvegicus mRNA for class I beta-tubulin, complete cds
71	22248	AA943537	cc, General		Rattus norvegicus zyxin mRNA, partia cds
72	22257		m	]	ESTs, Highly similar to T2DA_HUMAN TRANSCRIPTION INITIATION FACTOR TFIID 20/15 KDA SUBUNITS [H.saplens]
73	12673		u.cc, General		
74			General		ESTs
75		AA944155	ř <del>-  </del>		ESTs
76			1		ESTS

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TABLE 1: 'S	UMMARY		97 1	265	Atty: Dealer No. 44920-5039V
1 7 18 V				· 使型	Dog. No. 1793397
Sameneo"	Section 2	Good Contract	00-0-0	1	(4) 4 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
			Modal Gode	Genre Name	
D No. = 1	Mentifier	Ref. Seg ID	Gore	Generalie	Unigene Cheter Title
					ESTs, Highly similar to CKS2 MOUSE CYCLIN-DEPENDENT KINASES REGULATORY SUBUNIT 2
377	20903	AA944180	li,x		[M.musculus]
378	13507	AA944244	v		ESTs
379	15596	AA944353	General	1	ESTs
380	22681	AA944413	i,v,cc, General		ESTs
300	22081	A049444 13	General		ESTs, Highly similar to hypothetical
381	6711	AA944439	Generat		protein [M.musculus]
-	10777	70.011100	T	<del></del>	ESTs, Weakly similar to FIBA RAT
			i.q.		FIBRINOGEN ALPHA/ALPHA-E
382	14763	AA944481	General		CHAIN PRECURSOR [R.norvegicus]
383	22466	AA944605	h		ESTs
	I				ESTs, Weakly similar to A44437
384	12301	AA944727	<b>b</b>		regenerating liver inhibitory factor RL/IF-1 - rat.[R.norvegicus]
304	12301	AA344121	1	HHs:polymerase (RNA) II	ESTs, Highly similar to RNA
	1	1	1	(DNA directed) polypeptide E	polymerase II 23kD subunit
385	7023	AA944792	d,m,aa	(25kD)	[H.saplens]
386	22536	AA944803	bb		ESTs
387	22501	AA944811	g,l		ESTs
388	23967	AA944831	8		ESTs
389 390	26084 11974	AA944922 AA944958	Generat		ESTs
390	22547	AA944958 AA944970	aa		ESTS
392	22554	AA945076	z.General		ESTs
393	14352	AA945181	General		ESTs
					R.norvegicus alpha-1-macroglobulin
395	1798	AA945569	General		mRNA, complete cds
396	22050	AA945604	i,aa		ESTs
397	19731	AA945615	d,o		ESTs
398	22612	AA945624	a,General		ESTs, Weakly similar to DHQU RAT NAD(P)H DEHYDROGENASE [R.norvegicus]
399	22618	AA945656	98		ESTs
400	11871	AA945679	v		ESTs
401	22656	AA945818	General		ESTs
402 403	6720 22351	AA945828 AA945867	In In		ESTs ESTs
103	22351	AA945877 AA945877	lm .		ESTS
105	24243	AA945950	lb		IESTs
106	22689	AA945962	General		ESTs
407	22692	AA945986	d		ESTs
108	22696	AA945996	c,General		ESTs
108 109	22697	AA945996 AA945998	c,o w		ESTs
tua .	44000	W-042930	<del> "</del>		ESTs, Highly similar to COXG
110	20832	AA946040	s	HMm:RIKEN cDNA 2010000G05 gene	MOUSE CYTOCHROME C OXIDASE POLYPEPTIDE VIB [M.musculus]
111	18337	AA946046	General		ESTs
112	825	AA946108	General		Rattus norvegicus laminin-5 alpha 3 chain mRNA, complete cds
113	8639	AA946221	e,cc, General		ESTs
114	23237	AA946224	f		ESTs
115	15600	AA946250	0,88		ESTs
	40007				ESTs, Highly similar to AR21_HUMAN ARP2/3 COMPLEX 21 KD SUBUNIT
116	19387	AA946275	<u> </u>	PCTAIRE-1 protein kinase,	(H.sapiens) PCTAIRE-1 protein kinase.
117	6351	AA946344	d ,	alternatively spticed	alternativety spliced ESTs, Highly similar to autoantigen
118	22057	AA946348	e		(H.sapiens)
					ESTs .

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Vable 1: 6	SUMMARY				Atty: Docket No. 44924-50390 Doc. No. 1793397
Conjunció CON OIL	irlam (fflar	GerBank Acci Ref. Seg ID	Modal	Gano Namo	Uniprove Cluster Title
420	13962	AA946351	General	Regula Manua	
420	13502	JAA940331	General		ESTs ESTs, Highly similar to Ring3
421	18280	AA946361	la		[M.musculus]
422	18944	AA946391	v		ESTs
					ESTs, Moderately similar to p18
424	21410	AA946408	l,		component of aminoacyl-tRNA synthetase complex [H.sapiens]
425	643	AA946439	lo,y		Rat H4 gene for somatic histone H4
426	20736	AA946443	×		ESTs. Highly similar to NPD1 MOUSI NEURAL PROLIFERATION DIFFERENTIATION AND CONTROL PROTEIN-1 PRECURSOR (M.musculus)
427	21878	AA946448	r		IESTs
			1.		ESTs, Highly similar to AF151863 1
428 429	21947 17499	AA946451	bb		CGI-105 protein [H.sapiens]
429	17499	AA946467	General		ESTs Rat mRNA for alpha-2u olobulin-
430	1809	AA946503	x.Genera		related protein
431	23360	AA955104	f		ESTs
432	23471	AA955162	General		ESTs
433 434	9452	AA955206 AA955282	b,General General		ESTs ESTs
435	22596	AA955282 AA955298	General		JESTS JESTS
436	23283	AA955391	h	lipoprotein-binding protein	lipoprotein-binding protein
437	23546	AA955393	General	g aprocess suitang process	ESTs Production of the last of
					ESTs, Weakly similar to SX10 RAT TRANSCRIPTION FACTOR SOX-10
438 439	12404 23626	AA955408 AA955540	b aa		[R.norvegicus]
439	23020	AA955540	aa		EST, EST, Moderately similar to FBRL MOUSE FIBRILLARIN [M.musculus], ESTs, Highly similar to
	l	1			FBRL MOUSE FIBRILLARIN
441 442	17540 24277	AA955914	bb		[M.musculus]
442	24277	AA955962	General		ESTs ESTs, Moderately similar to pescadillo
443	19939	AA955980	General		[H.sapiens] ESTs, Weakly similar to AF139894 1
144	24000	AA956005	j_		RNA-binding protein alpha-CP1 [M.musculus]
145	11050	AA956164	s,v		ESTs, Weakly similar to TCPA RAT T- COMPLEX PROTEIN 1, ALPHA SUBUNIT (R.norvegicus)
	498 23409	AA956278 AA956294	a,General		ESTs
	23409		q f,x		IESTs IESTs
175	20113	AA330470	1,0		ESTs, Highly similar to ET putative
150	23799	AA956530	d		translation product [M.musculus]
151	23800	AA956534	aa		RNG1_HUMAN RING1 PROTEIN [H.sapiens]
152	23834 ,	AA956659	cc, General		EST
	*****		. 7		ESTs, Moderately similar to C8
	16425 23847	AA956688 AA956723	f,x s		[M.musculus] EST
	20041	701000123			ESTs, Highly similar to Mi-2 protein
55	23852	AA956746	j,I,m,z		[H.sapiens] ESTs, Highly similar to p162 protein
56	5989	AA956907	g,s		[M.musculus] ESTs, Highly similar to p162 protein
56	5990	AA956907	General		[M.musculus]

VARLES: 8	Opt to the				AMY Doctol No. 42221-5039V Dog. No. 179333
Sojumo D No	l'ioniffer	SonBank Acc Ref. Son ID	Model Model	Gane Namo	
457	23957	AA957123	u.Genera		ESTs, Weakly similar to AF187065 1 p75NTR-associated cell death executor [R norvegicus]
458	22357	AA957264	General		ESTs, Highly similar to hypothetical protein [H.sapiens]
			g,l,m,p.v. cc,		3
459	23314	AA957270	General		ESTs
460	23995	AA957292	a,b		ESTs
461	2702	AA957307	General	HHs:seryl-tRNA synthetase	ESTs, Moderately similar to SYS_HUMAN SERYL-TRNA SYNTHETASE [H.sapiens] ESTs, Highly similar to HIGH
462	24040	AA957422			AFFINITY IMMUNOGLOBULIN EPSILON RECEPTOR GAMMA- SUBUNIT PRECURSOR (R.norvegicus)
463	12478		1		ESTs, Highly similar to P3 MOUSE P
464	21306	AA957554 AA957811	m		PROTEIN [M.musculus]
465	24183	AA957889	v		ESTs
466	24178	AA957905	d		ESTs ESTs
467	17034	AA963071	e		ESTs, Highly similar to epsilon-COP [M.musculus]
468	24053	AA963092	General		ESTs, Weakly similar to AF187065 1 p75NTR-associated cell death executor [R.norvegicus]
169	2767	AA963201	0		ESTs
170	2022	AA963259	9		ESTs
171	2126	AA963488	d		ESTs
172	24246	AA963703	b		ESTs, Highly similar to cell cycle protein p38-2G4 homolog [H.sapiens]
173	2195	AA963746	General		ESTs
174	19370	AA963797	1		ESTs
175 176	2282 2284	AA964147	0		ESTs
78	2350	AA964152 AA964368	g,General		EST ESTs, Highly similar to TGT_HUMAN QUEUINE TRNA- RIBOSYLTRANSFERASE [H.saplens
79	18830	AA964496	aa		ESTs, Highly similar to ATRTC actin
80	2392		b		beta - rat [R.norvegicus]
81	2395	AA964554	General		ESTs, Highly similar to U3 snoRNP associated 55 kDa protein [H.sapiens]
			i,aa		EST Protein (H.sapiens)
83			1		ESTs
	2424		9		ESTs
			General		ESTs
		AA964752	q,t		EST ESTs, Highly similar to DRIM protein
87	6778	AA964763	b		[H.sapiens] ESTs, Weakly similar to T23337
89	2468	AA964807			hypothetical protein K05C4.2 - Caenorhabditis elegans [C.elegans]
				Glutamate-cysteine ligase	Glutamate-cysteine ligase (gamma- glutamylcysteine synthetase),
			w 1	synthetase), regulatory	regulatory
		AA964814			
91	12561	AA964815	General		ESTs ESTs, Highly similar to PROCOLLAGEN ALPHA 1(IV) CHAIN
91	12561 2326	AA964815 AA964892	General aa		ESTs, Highly similar to PROCOLLAGEN ALPHA 1(IV) CHAIN PRECURSOR IM musculus] ESTs, Highly similar to ABC1 MOUSE ATP-BINDING CASSETTE, SUB-
91 92 93	12561 2326 21339	AA964892 AA964962	General		ESTS, Highly similar to PROCOLLAGEN ALPHA 1(IV) CHAIN PRECURSOR [M.musculus] ESTS, Highly similar to ABC1 MOUSE

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TABLE 1: 8	EUMMARY				AND DOOR NO. 449214 Poo. No. 15
Sequence ID No.	No afficer	Gardents Accil Raf. Gaglio	0.000 900 900 900	Conto Name	Unigaro Civistar Tilla
496	2583	AA965166	bb		ESTs, Moderately similar to in pyrophosphatase [H.sapiens] ESTs, Highly similar to KIAA0
497	15885	AA965207	r		protein [H.sapiens]
499	2905	AA996727	b,I,m,u, General		ESTs
500	2915	AA996782	u.bb	1	ESTs, Moderately similar to Si lamin A - rat [R.norvegicus]
501	2920	AA996813	d		ESTs
502	19525	AA996856	aa,Gene al	1	EST
503	2984	AA997015	c		ESTs
504 505	2986 3145	AA997028 AA997237	General		ESTs IESTs
506	19249	AA997342	m		ESTs
	1				ESTs, Weakly similar to nitrilar
507	16883	AA997345	General	ļ	homolog 1 [M.musculus]
					ESTs, Moderately similar to LONN_HUMAN MITOCHONDI LON PROTEASE HOMOLOG
508	12598	AA997362	8		PRECURSOR [H.sapiens]
509 510	3470 3180	AA997374 AA997425	P		ESTs, Weakly similar to LIS1 PLATELET-ACTIVATING FAC ACETYLHYDROLASE IB ALPI SUBUNIT [R.norvegicus]
010	3100	70037423	<del> </del>		ESTs, Weakly similar to PAI2 I
511	3245	AA997608	General		PLASMINOGEN ACTIVATOR INHIBITOR-2, TYPE A [R.norv
512	3020	AA997656	l.		ESTs, Moderately similar to T0 SH3 domains-containing protei POSH - mouse [M.musculus]
					ESTs, Moderately similar to T3
513	3269	AA997800	x.aa	ı	cell proliferation antigen Ki-67 - [M.musculus]
514	3288	AA997877	f	ļ	[ESTs
515	23992	AA998164	k,x	Cyclin B1	Cyclin B1
516	17470	AA998264			ESTs, Moderately similar to FLRE_HUMAN FLAVIN REDUI [H.sapiens]
					ESTs, Weakly similar to
517	3773	AA998356	General		BCL3_HUMAN B-CELL LYMPH 3-ENCODED PROTEIN (H.sap
518	19623	AA998422	General		IEST PROTEIN (H. sap
					ESTs. Highly similar to CGA2 N
519	3572	AA998516	x		CYCLIN A2 [M.musculus]
					ESTs, Moderately similar to CY DEPENDENT KINASE INHIBIT
520 ;	2782		с		[M.musculus]
521	26119		i,r,w, General		
522	26119		aa		ESTs
523	3696	AA999030	e		ESTs, Moderately similar to AF 1 CGI-32 protein [H.sapiens]
524	3079	AA999169	General		ESTs
525	3081	AA999171	e,p,r	Signal transducer and activator of transcription 1	Signal transducer and activator transcription 1
	3082 .		General .	HHs:guanine monphosphate synthetase	ESTs, Highly similar to GUAA_HUMAN GMP SYNTHA: [H.sapiens]
527	17337	AB000717	k		ESTs
			а	Phoshpotipase D gene 1 RuvB-like protein 1	Phoshpolipase D gene 1
529			k :		RuvB-like protein 1

TABLE	1: SUMMAR	7		1 1 1	Ality, Dockol No. 43921-505500
	01		7g -	1	Doe, No. 1793397
Sequen		GenBenk/Accil	Model	100	14.09
D (no.	Marellife	r Roleson 10	. (Octo	Gence Manno,	United Gluster Vide
					Rattus norvegicus mRNA for
	1				carboxylesterase precursor, complet
531	4312	AB010635	c,i,j,k,y,z	1	cds
532	21666	AB012214	k	(cytosine-5) 1	ESTs, Highly similar to JE0378 DNA [R.norvegicus]
			1	S(c) toomic of t	Rattus norvegicus mRNA for G prote
533	15772	AB015645	9		coupled receptor, complete cds
	1				Rattus norvegicus MAP-kinase
534	1183	AF013144	J <sub>b</sub>		phosphatase (cpg21) mRNA, complete cds
	1.00	71.013144	-	<del> </del>	Rattus norvegicus NAC-1 protein
535	1582	AF015911	h,z		(NAC-1) mRNA, complete cds
					ESTs, Moderately similar to MY16
	1		1		MOUSE MYELOID
	1				DIFFERENTIATION PRIMARY
ı	- 1		1		RESPONSE PROTEIN MYD116
			u,cc,		progression elevated gene 3 protein
536	11483	AF020618	General		mRNA, complete cds
					Rattus norvegicus MHC class lb M4
537	20295	AF024712	aa		(RT1.M4) pseudogene, complete
331	20295	AF024712	aa		sequence Rattus norvegicus chemokine CX3C
538	19077	AF030358	v.z		mRNA, complete cds
539	23044	AF034218	General	hyaluronidase 2	hyaluronidase 2
540	25178	AF035955	d		
	i	1			Rattus norvegicus kidney Injury
541	1564	AF035963	x,bb, General		molecule-1 (KIM-1) mRNA, complete
J41	1004	AF035963 .	General		Rattus norvegicus NonO/p54nrb
542	8426	AF036335	1		homolog mRNA, partial cds
			1		Rattus norvegicus homocysteine
		İ	1		respondent protein HCYP2 mRNA,
543	21817	AF036537	lk		complete cds
544	21145	AF038571	General	Solute carrier family 1 A1 (brain glutamate transporter)	Solute carrier family 1 A1 (brain glutamate transporter)
	1	74 000071	Constan	putative peroxisomal 2.4-	putative peroxisomal 2,4-dienoyl-CoA
545	22602	AF044574	General	dienoyl-CoA reductase	reductase
	1.		1	UDP-glucose:ceramide	UDP-glucose:ceramide
546 547	13464	AF047707 AF052695	h ·	glycosyltransferase	glycosyltransferase
547	24024	AFU02095	x	cell cycle protein p55CDC	cell cycle protein p55CDC Rattus norvegicus trp1 bela variant
548	12259	AF061266	h	transient receptor protein 1	mRNA, complete cds
					Rattus norvegicus kidney-specific
549	4589	AF062389	y,z		protein (KS) mRNA, complete cds
					Rattus norvegicus nucleosome
550	16007	AF062594	. 1	nucleosome assembly protein 1-like 1	assembly protein mRNA, complete
,,,,	110007	71 002304	1		Rattus norvegicus pyruvate
		i			dehydrogenase phosphatase
551	15761	AF062741	u		isoenzyme 2 mRNA, complete cds
					Rattus norvegicus bithoraxoid-like
552	17426	AF073839 AF074608	P		protein mRNA, complete cds
103	10015	AFU/4008	8		RT1 class lb gene Rattus norvegicus serine/threonine
	1				Rattus norvegicus serine/threonine protein kinase TAO1 mRNA, complete
54	15797	AF084205	r	j	cds
					Rattus norvegicus 190 kDa ankyrin
55	12932	AF102552	s	ankyrin 3 (G)	soform mRNA, complete cds
				1	ESTs, Highly similar to A49013 tumor
56	18603	AI007649	l. I	l:	cell suppression protein HTS1 [H.sapiens]
57	22733	AI007668	r		H.sapiensj ESTs
58	22746	Al007672	r		ESTs
59	24109	AI007725	General		STs

				-68-	
TABLE 11'S	mawaew:	MENTAL STREET			Ally, Docket No. 44924-5039W
MAJES IN O	ORINARY		1443		Dos. No. 1799897.1
-	DA STATE OF	CHEST OF PARTY	18000 250	The second second	
Sequence	Sec. 13	Gentanik Acell	Model	The second second	100 m
DNO. AN	(dentiller	Rof Sec 10.	Code	Gono Xemo	Unigeno Gluster Titlo
560	15848	A1007820	n.v		ESTs, ESTs, Highly similar to HS9B RAT HEAT SHOCK PROTEIN HSP 90-BETA [R.norvegicus]
561	10108	AI007857	1	Hrs	Hrs
562	6804	AI007877	General		ESTs
563	20099	AI007893	f,u		ESTs ESTs, Weakly similar to T18778
					hypothetical protein B0513.2b -
564	11368	AI007948	d		Caenorhabditis elegans [C.elegans]
			1		ESTs,ESTs, Highly similar to HS9B
565	15849	AI008074	h		RAT HEAT SHOCK PROTEIN HSP
303	10043	AIUUUU14	<del> "</del>	<del> </del>	90-BETA [R.norvegicus]
		1	1	1	ESTs, Moderately similar to AF151841
566	3121	Al008160	General		1 CGI-83 protein [H.sapiens]
					ESTs, Highly similar to Chain G, G
			1	1	Protein Heterotrimer Gi alpha 1 Beta 1 Gamma 2 With Gdp Bound
567	16646	AI008190	ŀ	1	[R.norvegicus]
					ESTs. Weakly similar to G2/MITOTIC-
568	12683	AI008203	x		SPECIFIC CYCLIN B1 [R.norvegicus]
			I		ESTs, Moderately similar to PIM1 RAT PROTO-ONCOGENE
					SERINE/THREONINE-PROTEIN
569	22018	A1008309	ь		KINASE PIM-1 [R.norvegicus]
					JESTs, Highly similar to
				i	6PGD_HUMAN 6-
				!	PHOSPHOGLUCONATE DEHYDROGENASE.
570	23917	AI008441	n		DECARBOXYLATIN [H.sapiens]
	22599	AI008458	General		ESTs
	22698 14405	AI008578 AI008579	p,General r,x		ESTs ESTs
5/5	14403	A1000375	'A		ESTs, Moderately similar to JH0446
574	4086	AI008629	х .		75K autoantigen [H.sapiens]
			i,v,		ESTs, Weakly similar to heat shock
575	3808	AI008643	General		protein hsp40-3 [M.musculus]
					ESTs, Weakly similar to T29897 hypothetical protein F38A5,1 -
	3931	AI008697	lı .		Caenorhabditis elegans [C.elegans]
577	7785	AI008758	aa 🤫	Dipeptidyl peptidase 4	Dipeptidyl peptidase 4
					ESTs, Weakly similar to
					LONN_HUMAN MITOCHONDRIAL LON PROTEASE HOMOLOG
578	16701 .	AI008838	9		PRECURSOR [H.sapiens]
					ESTs, Weakly similar to CYSR RAT
579	21789	41000000			CYSTEINE-RICH PROTEIN 1
	21/89	AI008930 AI008971	General		[R.norvegicus] ESTs
			Salitatel		R.norvegicus mRNA encoding 45kDa
			i,aa,		protein which binds to heymann
581	410	AI008974	General		nephritis antigen gp330
					ESTs, Highly similar to BAG-family molecular chaperone regulator-2
582	21632	Al009167	General		(H.sapiens)
583	21596	Al009168	General		ESTs
584	22801	Al009197	General		ESTs
1					ESTs, Highly similar to similar to
585	11876	AI009321	cc, General		human DNA-binding protein 5 [H.sapiens]
	2506	Al009321	General		ESTs
	3382	AI009362	General		ESTs
					ESTs, Highly similar to Lmp10

TABLE 1: S	UMMARY	3.5	DE AGE		Ally, Dooket No. 4922(-5030)VC
20.20		12.20			Dots, (No. 17073997.4
Sequence	\$ 01	ConBank Ace	P. SEC	No. of the last of	THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.
	Manufffer	Ref. Seq ID	and the same	Some Marmo	Unigene Chester Ville
TE UNCE	Leganner	Man Sed income	COOR	Selletranie	
589	19275	AI009460	L		ESTs, Highly similar to filamin
590	4154	AI009467	9		[H.sapiens]
591	3464	AI009589	cc		ESTs
			1	1	ESTs, Highly similar to molybdopterin-
592	3926	AI009592	e		synthase large subunit (M.musculus)
593	19358	AI009675	C	1	EST
594	22545	AI009747	9		ESTs
595	15089	AI009752	cc, General		ESTs
596	5458	AI009752	h	ALG-2 interacting protein 1	ALG-2 interacting protein 1
597	6844	AI009770	e.r.cc	ACO-2 interacting protein 1	ESTs
			1		ESTs, Highly similar to RS16 HUMAN
		1			40S RIBOSOMAL PROTEIN S1
598	15627	AI009810	aa		[R.norvegicus]
	22619	AI009825	d		ESTs
600	7857 13259	Al009898 Al009946	j,l,m,z		ESTs
	21105	AI010067	General	<u> </u>	ESTs ESTs
	21.100	7.101000	Conelai	Testis enhanced gene	2018
603	24627	AI010102	aa	transcript	Testis enhanced gene transcript
					ESTs, Moderately similar to
ı			l		YA00_HUMAN HYPOTHETICAL
				1	PROTEIN CGI-100 PRECURSOR
504 505	12716 18757	AI010178	General		[H.sapiens]
605	18757	AI010216	aa.	ļ	ESTs ESTs, Weakly similar to claudin-7
306	2912	AI010220	General		[R.norvegicus]
607	3316	AI010237	t		ESTs
	15644	AI010256	General		R.norvegicus mRNA for histone H3.3
					Rattus norvegicus mRNA for
1					inetrleukin-4 receptor (membrane-
	657 3271	AI010262	b		bound form), complete cds
510	3271	AI010303	ь		ESTs ESTs, Moderately similar to
			ĺ		erythroblast macrophage protein EMP
511	11081	AI010407	ьь		[H.sapiens]
			C,s,t,		( neepione)
	16521	AI010470	General	Ceruloplasmin (ferroxidase)	Ceruloplasmin (ferroxidase)
313	6927	AI010542	General		ESTS
			a.j.y.		
	17524 6946	AI010568 AI010642	General :	Growth hormone receptor	Growth hormone receptor
210	0940	AIU 10542	n		ESTs ESTs, Highly similar to SDP3
316	23509	AI010962	aa		[M.musculus]
	6044	AI011285	t		ESTs
318	13855	AI011361	0		ESTS
	21779	AI011380	cc		ESTs
21	12534	AI011460	cc		ESTs
-00			7		ESTs, Moderately similar to HYA22
22	12629	AI011492	e,f		[H.sapiens]
1					ESTs, Weakly similar to B Chain B,
					Solution Structure Of The C-Terminal Negative Regulatory Domain Of P53
					In A Complex With Ca2+-Bound
23	735	AI011560	f		S100b(Bb) [R.norvegicus]
					ESTs, Moderately similar to LMA5
			. 1		MOUSE LAMININ ALPHA-5 CHAIN
i24 S	3941 .	AI011598	General		[M.musculus]
					ESTs, Weakly similar to JE0360
25	7550	AI011607	i.General		gamma-Butyrobetaine hydroxylase [H.sapiens]
120	7000	AUTIOU	I,General		ESTs, Weakly similar to I(3)S12
26 1	0636	AI011634	.		protein ID.melanogasterl

WO 02/0	195000			PCT/US02/1617.	
				-70-	
TABLE 1:	SUMMARY	2,70	1 A		- ANN Deckel No. 41991-5939). Dos. No. 1793357
Sogranos ID No.	ldentifor	Gordant Ace/ Rof/ Seg ID	Model Code	Gipno Namo	Uniformo Chester Titte
628	16112	AI011706	h		ESTs, Weakly similar to SFR5 RAT SPLICING FACTOR, ARGININE/SERINE-RICH 5 [R.norvegicus]
l	1				ESTs, Weakly similar to A35902 Fc
630	13354	AI011757 AI011799	c		gamma [R.norvegicus]
631	18684	AI011799 AI011812	i cc		ESTs ESTs, Highly similar to AF151842 1 CGI-84 protein [H.sapiens]
632	4205	AI011982	b		ESTs Protein (H.sapiens)
633	6518	AI012114	General		ESTs, Moderately similar to R29425 [H.sapiens]
634	17407	AI012145	General		ESTs
635	13093	AI012177			ESTs, Weakly similar to PPP5 RAT SERINE/THREONINE PROTEIN PHOSPHATASE 5 [R.norvegicus]
636	15395	AI012216	ſ		ESTs, Moderately similar to Y33K_HUMAN HYPOTHETICAL 33. KDA PROTEI [H.saplens]
637	21796	AI012221	d,Genera	4	ESTs, Weakly similar to S70484 RS4 protein - rat (fragment) [R.norvegicus
638	3981	AI012235	i,General		ESTs
639	6606	AI012308	i,r		ESTs
640	3417	AI012337	w		ESTs, Highly similar to NHPX RAT NHP2/RS6 FAMILY PROTEIN YEL026W HOMOLOG [R.norvegicus
641 642	24200 7471	AI012356 AI012379	b,t, General		ESTS
643	7247	AI012379	g		ESTs ESTs
	1		1		LOTS
644	7127	AI012464	p,General		ESTs ESTs, Weakly similar to T26998
645	3304		l.		hypothetical protein Y48B6A.6 -
646	2311	AI012471 AI012485	b aa		Caenorhabditis elegans [C.elegans]
647	20817	AI012589	g,n,q	glutathione S-transferase, pi	glutathione S-transferase, pi 2
648	3493	AI012590	v,General		ESTs
649	8975	AI012613	General		ESTs
650	11335	AI012619	li .		ESTs, Highly similar to unknown [H.sapiens]
651	21409	AI012637	General		ESTs .
652	8015	AI012638	aa		ESTs, Moderately similar to AF15183
					1 CGI-76 protein [H.sapiens] ESTs, Highly similar to RS20_HUMAN 40S RIBOSOMAL PROTEIN S2
553	8476	AI012647	w e.p.		[R.norvegicus]
554 555	4232 23128	AI012958	General		ESTs
356		AI013011 AI013260	General General	lamin	ESTs lamin
			Salitation		ESTs, Highly similar to GLIA DERIVED NEXIN PRECURSOR
357 358	11969 26147	AI013273 AI013387	k		[R.norvegicus]
559			aa .		ESTs
					Rattus norvegicus Hsp70 bindino
60	19722	AI013508	k I		
660 661 662	6674	AI013568	General o,t		protein HspBP mRNA, complete cds ESTs ESTs

				-71-	
TABLE 1	SUMMARY				Ally, Deckel No. 44921-3039 Doc. No. 17938
100	C CONTRACTOR	GenBerik Acel Ref. See 10		Property Commen	184-1
IDINO.	(Legalifren	Bot Soofs	Godb	GarratName	Uniferance Cluster 700e
-			The same of the sa	CONTRACTOR OF THE PARTY OF THE	ESTs, Moderately similar to BMP6
					PROTEIN 6 PRECURSOR
664	7274	AI013715	aa		[R.norvegicus]
665	7276	AI013730	e		ESTs, Highly similar to KIAA1102 protein [H.sapiens]
666	7278	AI013738	y,z,aa		ESTs
667	22592	AI013740	s,x,bb, General		ESTs, Highly similar to proteolipid protein 2 [M.musculus]
668	16584	AI013765	w	Arrestin, beta 2	Arrestin, beta 2
					ESTs, Highly similar to T27225 AD ribosylation factor Y57G11C.13 [similarity] - Caenorhabditis elegan
669	24143	Al013804	ij.i		[C.elegans]
670	15928	AI013829	a.General		ESTs
			, Gondia	3-hydroxyisobutyrate	
671 672	21950 3260	AI013861		dehydrogenase	3-hydroxyisobutyrate dehydrogena
0/2	3260	AI013875	-		ESTs ESTs, Moderately similar to MSSF
673	2708	AI013882	d,q		[M.musculus]
674	8585	AI013886	p.r.t.		ESTs ESTs, Weakly similar to CIRP
675	7299	AI013911	General		[R.norvegicus]
376	15904				Rat ankyrin blinding glycoprotein-1
676	15904	Al013971	General		related mRNA sequence ESTs, Moderately similar to R3218
677	12781	AI014023	w		[H.sapiens]
578	19372	AI014135	aa		Rattus norvegicus mRNA for beta- carotene 15,15'-dioxygenase, complete cds
					ESTs, Highly similar to hypothetica
579 580	4241 15247	AI014140 AI014169	c,u		protein [H.sapiens] Rattus norvegicus clone N27 mRN
	10211	14105	-		ESTs, Moderately similar to mitoge activated protein kinase kinase kin
581	7315	AI028831	n		6 [H.sapiens]
82	16631	AI028856	General		ESTs ESTs, Highly similar to S55054 Sm
583	23297	AI028953	x		protein G [H.sapiens]
584 585	11326 2866	Al029015	b		ESTs
586	12866	AI029058 AI029126	n,y iGeneral		ESTs ESTs
387	17602	AI029156	p		ESTs
388 389	7392 6517	AI029185 AI029264	aa d,k,x		EST
90	7639	AI029294	b.		ESTs ESTs
					ESTs, Highly similar to CB80_HUM 80 KDA NUCLEAR CAP BINDING
91	3874	AI029428 AI029437	i,General		PROTEIN [H.sapiens]
92	7452	AI029437 AI029466	<del> </del>		ESTs ESTs
94		AI029608	b		ESTs
96	7537	AI029829	o.General		ESTs
97	2310	AI029969	v		ESTs
98 99		AI030023 AI030024	b.n		ESTs ESTs
00	14492	AI030024 AI030091	b,n cc		ESTs ESTs
01	10673	AI030134	,		ESTs, Weakly similar to ankyrin (R.norvegicus)
02	7615	AI030163	1,0		ESTs
03	2370	AI030179	General ]		ESTs ESTs, Moderately similar to
04	7681	AI030449	.		methyltransferase related protein

Street	TABLE 1: 8	UMMARY	7 7 76			APA Doctor No. 64924-6016000
STREAD   Content   Conte	Mary de		1 to 1 to 7 to 1	100		Doc. No. 1798897 (
11599		Manifflat				# 1 1 2 S 1 3
Ratius noncegicus nucleosome   Assembly protein mRNA, complete   Cds						
766 7665 A003698 A0036		1			1	
1977   2422		L		1		assembly protein mRNA, complete
10740	706	7665	A1030668			
10742					+	ESTS
					<del> </del>	FST
19627				1	1	ESTs, Moderately similar to
ESTA, Highly similar to SXTY MOL				General		adipophilin [H.sapiens]
713 22614 AI031004 r	712	19527	AI030991	f		
1713   22614   A0031004   r		1	l .	1	1	
ESTE, Highly similar to CLPP MOL   PUTATIVE ATP-OPENDED   PUTATIVE	713	22614	AI031004	Jr.		
PUTATIVÉ ATP-DEPENDENT CI   PROTE ASS PROTECUTIC   SUBUNIT, MITCH-OHORGAL   PROTE ASS PROTECUTIC   SUBUNIT, MITCH-OHORGAL   PROTE ASS PROTECUTIC   SUBUNIT, MITCH-OHORGAL   PROTECUTIC   PROTEC		1	71031004	<del> </del>	<del></del>	ESTs, Highly similar to CLPP MOUSE
14			1	1	1	PUTATIVE ATP-DEPENDENT CLP
1714   3167				1	1	
1715   S350	***	2467		L		
768						PRECURSOR [M.musculus]
1775   10764   AIQ43678   d   EST   Weakly similar to 727134   hypothetical protein 9730128.2 -   Camorhodise legisms [Comparison of the Comparison of the				fo t		FST
18			AI043678	d		EST
1918					1	ESTs, Weakly similar to T27134
Hispanophoritosys			l	1	l .	
719	718	9180	A1043694	aa		Caenorhabditis elegans [C.elegans]
198		1				Datter and a state of the state
7884	719	7867	AI043695	22		amidonhosohoribosultransformen
221   7895			AI043724		- Children Colored Col	
				1		ESTs, Highly similar to AF151810 1
EST4, Weakly similar to ELMONATE				е		CGI-52 protein [H.sapiens]
Part	722	7903	AI043805	General		
7913			1	1		
129	723	7913	AI043849	lcc	1	
10816				T .		ESTs
286   10818	725	6766	AI043914	1		ESTs
1727   7956						
28				General		
S989				<u> </u>		ESI
SSTs, Weakly emilar to AFT21835   Sequence-specific single-strange   SSTs, Weakly emilar to AFT21835   Sequence-specific single-strange   SSTs, Weakly emilar to AFT21835   SSTs, Weakly emilar to AFT21835   SSTs, Weakly emilar to putative peroxisornal 2.4-distorpt-CoA   SSTs, Weakly emilar to putative peroxisornal 2.4-distorpt-CoA   SSTs, Weakly emilar to putative peroxisornal 2.4-distorpt-CoA   SSTs, Weakly emilar to AFT63852   SSTs, Weakly emilar to AFT63892   SSTs, Weakly emilar to A						
Sequence-specific single-stranded   Sequence-specific single-stranded   Sequence-specific single-stranded   SETS, Weakly similar to putality   SETS, Weakly similar to AF165892   SETS, Weakl				1		ESTs, Weakly similar to AF121893 1
0.5425				1		sequence-specific single-stranded-
Second	30	5425	AI044237	a,d		DNA-binding protein [R.norvegicus]
			1	1		
1,545  A)044253   EST	31	8692	A1044247	l,		
33 5461 A)044338	32			i		EST
34   5464   Al04436				g.p.		
3359				General		
77 2696 AI044396 b Rai (clones r.G(80,41,28)) Interieur (2014) Rai (clones r.G(80,41,28)) Interieur (2014) Rai			AI044345	1		
2895	35	3359	AIU44347	aa		
38 5494 Al04425 Ceneral ESTs 40 9862 Al04458 Jm ESTs 41 5575 Al04458 g ESTs 42 2348 Al044794 General ESTs 42 18205 Al04436 n R.R.Andrign protein SlandP 43 18205 Al04436 n R.R.Andrign protein SlandP 44 5562 Al04486 U ESTs 45 5530 Al04486 U ESTs	37	2695	AI044396	h		
40 9682 A)044588 jm SSTs 41 5075 A)044688 g SSTs 42 2348 A)044794 General ESTs 42 2348 A)044794 General ESTs ESTs, Weakly similar to AF165892 ANA-binding protein SlahBP A 5625 A)044854 U SSTs 45 5630 A)044869 I SSTs ESTs				General		
41         5975         AI044698         g         EST9           42         2348         AI044794         General         EST9           EST6, Weakly similar to AF165992         RNA-bridding protein SiahBP           RNA-bridding protein SiahBP         R. Anonvegicus           44         5626         AI044864         u         EST6           45         5630         AI044869         f         EST6	40	9882	AI044588			ESTs
ESTs, Weakly similar to AF165892 RNA-briding protein SlandP   44			AI044688	9		ESTs
43 18205 AI044836 n RNA-hidring protein SlahBP (Rnoneglaus) 44 5826 AI044864 u ESTS 4500 AI044869 f ESTS	42	2348	AI044794	General		
43 18205 AI044836 n (R.norvegicus) 44 5626 AI044864 u (ESTS 45 5630 AI044869 f (ESTs						
44 5626 AIQ44884 U ESTS 45 5630 AIQ44889 f ESTS	43	18205	A1044836			
45 5630 AI044869 f ESTs				P'		N.HUI YOUICUS]
ESTE Medaminin similar in ACASAS				r		ESTs
46 5634 AI044883 General 1 CGI-115 protein [H.sapiens]	44			r		ESTs

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TABLE 18 S	UMMARW:		をおける		* Ally, Dooket No. 44929-5 Dos. No. 177
Sections of	Mentifiter	ConCont. Accd. Rot. Scop 10	Medal 9:x10	Gene Neme	Unitgano Cluster Title
747	4047	AI044947	l,m		ESTs, Moderately similar to dJ1183I21.1 [H.sapiens]
748	5654	AI044976	w		EST
749	5684	AI045056	r		ESTs
750	19235	AI045074	General		ESTs, Highly similar to BGAL BETA-GALACTOSIDASE PRECURSOR [M.musculus]
	5689		i,aa, General		ESTs, Moderately similar to HE
751	5689	AI045075	1		[H.sapiens] ESTs, Moderately similar to Af
752	5711	AI045151	General		1 citrin [H.sapiens] ESTs, Weakly similar to TVRT
753	19237	AI045153			ribosomal protein S6 kinase [R.norvegicus]
754	9964	AI045161	ı		EST
755	5735	AI045223	1		ESTs
756	5474	AI045477	a,General		ESTs
757	5811	AI045502	d,e		ESTs
758	5819	AI045537	General		ESTs
759	5839	AI045594	-		ESTs ESTs, Highly similar to S30034
760	6808	A1045600	s		translocating chain-associating membrane protein [H.sapiens]
761	17755	AI045608	У		ESTs
763 764	10020	AI045632 AI045669	General		ESTs ESTs
/64	5855	A1043669	General		ESTs, Weakly similar to T1254
765	5881	AI045789	i .		hypothetical protein DKFZp434 [H.sapiens]
					ESTs, Moderately similar to S6 scaffold attachment factor B
766	5897	AI045862	General		[H.sapiens]
767	5900	AI045866	y,z		ESTs ESTs, Weakly similar to B4801
768	7540	AI045882	o,t, General		proline-rich proteoglycan 2 pre- parotid - rat [R.norvegicus]
769	5329	AI045970	P		ESTs
770	15093	AI058285	d		ESTs
771 772	8002 8017	AI058304 AI058341	i c		ESTs EST
112	8017	AIU36341	C		ESTs, Weakly similar to T46469 hypothetical protein
773	6828	AI058359	General		DKFZp434A0530.1 [H.sapiens]
774	8177	AI058603	aa		ESTS
775 776	3090 10093	AI058730 AI058746	aa		ESTs ESTs
	8143	AI058759	General		ESTS
778	18659	AI058762	1		ESTs
	8163	AI058837	аа		ESTs
	4789	AI058889	General		ESTs
	8221 10159	AI059061 AI059147	General d		ESTs EST
	10105	7.503 141	-		ESTs, Weakly similar to unnam
783	8245	AI059154	b		protein product (H.sapiens)
784	8283	AI059290 -	n	~	ESTs
785	8314	AI059386	g,General		ESTs
786	10200	AI059444			ESTs
					ESTs, Weakly similar to EGF R PRO-EPIDERMAL GROWTH FACTOR PRECURSOR
787	8347	AI059519	s		[R.norvegicus]
788	18359	AI059675			Rattus norvegicus transitional endoplasmic reticulum ATPase mRNA, complete cds

TRABLE 1: S	OMMARY		W.	in the second	Ally, Docket No. 44920
1-05495 gi					00s. No. 17
Seguence	The second	0-0-0-0	Mortal	The same of the same of	N. C.
Equates DNo		Genflank Acci Rof. See 10			The same of the same
ID NO.	Manifilar		(Gode	Gono Namo	Unigene Cluster Title
789 790	10281	AI059947 AI059968	b,t laa		ESTs .
750	0134	1A1009300	100	<del></del>	ESTs, Weakly similar to TNRO
					MOUSE LYMPHOTOXIN-BET
					RECEPTOR PRECURSOR
791	8495	AI059971	General		[M.musculus]
			1.		ESTs, Moderately similar to Ki
792	8496	AI059974	General		protein [H.sapiens]
793	10289	AI060053			ESTs, Weakly similar to CGI-1 hypothetical protein (H. sapiens
794	8548	AI060033	k		IESTs
795	8565	A1060176	<del>li</del>		TEST
796	18322	AI060279	i,y,z		ESTs
797	8745	AI069939	r		ESTs
			1		ESTs, Highly similar to rer
798	8785	AI070067	10		[M.musculus]
799	17506	AI070068	oc.	1	ESTs, Weakly similar to 21042 Gadd45 gene [R.norvegicus]
700	17300	AIU/UUO	100		ESTs, Weakly similar to NUCL
800	9067	A1070087	General	1	NUCLEOLIN [R.norvegicus]
					ESTs, Moderately similar to Co
801	3551	AI070122	e		protein [H.sapiens]
					ESTs, Moderately similar to GI
		l	1.	1	RAT GLIA MATURATION FAC
802	4967	AI070179	K		BETA (R.norvegicus)
	1		1	1	ESTs, Moderately similar to AF
803	18	Al070195	General	ļ	1 CGI-20 protein [H.sapiens]
					ESTs, Moderately similar to
			1	1	ARVC_HUMAN ARMADILLO
		1	1	1	REPEAT PROTEIN DELETED
804	24197	AI070314	General		VELO-CARDIO-FACIAL SYND [H.sapiens]
	8869	AI070314 AI070330	General		[F.Sapiens]
	8874	AI070336	b,cc		ESTs
	10417	AI070410	m		ESTs
					ESTs, Moderately similar to T0
		1	1		Toll protein-like receptor
808	8901	Al070419	aa		DKFZp547I0610.1 [H.sapiens]
809	14424	AI070421	l,p, General		ESTs
	10434	A1070421	General		ESTs
811	8927	AI070523	V		ESTS
812	8946	AI070611	q		ESTs
	8950	AI070621	w		ESTs
	8972	AI070673	General		ESTs
	8981	AI070715	bb		EST
816	26184	AI070784	i,i		ESTs, Weakly similar to hypoth
817	3007	AI070824	l <sub>w</sub>		protein [H.sapiens]
	8999	AI070839	lp .		ESTs [11.5apieris]
			ľ	bone morphogenetic protein	bone morphogenetic protein 1
1	10477 .	AI070868	e,f	1 (procollagen C-proetinase)	(procollagen C-proetinase)
	24301	AI070911	k		ESTs
820			General		EST
820 821	8721	AI071024			
820 821 822	8721 9212	AI071098	x		ESTs
820 821 822 823	8721 9212 1831	AI071098 AI071137	C C		Rat mRNA for cdc25B, complet
820 821 822 823	8721 9212	AI071098			Rat mRNA for cdc25B, complet EST
820 821 822 823	8721 9212 1831	AI071098 AI071137			Rat mRNA for cdc25B, complet EST ESTs, Highly similar to
820 821 822 823 824	8721 9212 1831 11005	AI071098 AI071137 AI071139			Rat mRNA for cdc25B, complet EST ESTs, Highty similar to HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN G
820 821 822 823 824	8721 9212 1831	AI071098 AI071137			Rat mRNA for cdc25B, complet EST ESTs, Highly similar to HETEROGENEOUS NUCLEAR

	UMMARY		40	W. T. T. T.	Ally, Octol No. 41921-
有物性情			(A)		DOG. (No. 177
Sequence ID No.		GoriBania Adel	Modal Code	Gene Mamo	Uniterno Que de Tillo
in more	sucentifiera.	Ken Sed IDA	0000		Singara ordinar ruta
828	16058	AI071490	General	HHs:serine palmitoyltransferase, long chain base subunit 2	ESTs, Highly similar to JC5180 C-palmitovitransferase (M.mus
829	11057	AI071509	f,o	CHOIN DOSC SOCORIK E	ESTs
					ESTs, Weakly similar to SYBS threonine synthase (EC 4.2.99 yeast (Saccharomyces cerevis
831	5695	AI071566	bb		(S.cerevisiae)
832	9671	AI071568	w		EST
833	22929	AI071578	General		ESTs, Moderately similar to NEURONAL PROTEIN 3.1 [M.musculus]
834	9673	AI071581	General		ESTs
835	9699	AI071646	General		ESTs
837	9799	Al072008	q.y.z	}	ESTs
838	9808	AI072050	d	1	ESTs
839	22796	AI072213	General	1	ESTs
840	9271	AI072405	v		ESTs
841	10869	AI072425	w		ESTs
842	21797	AI072439	General		ESTs, Weakly similar to S7048 protein - rat (fragment) [R.norve
843	9306	AI072521	r		ESTs
844	9312	AI072550	i		ESTs
845	10893	AI072559	× .		EST
	1		cc,Gener		Rattus norvegicus cytokeratin-1
846	1501	AI072634	al		mRNA, partial cds
847	6548	AI072658	General		ESTs
848	9363	AI072695	d		ESTs, Highly similar to JE0170 heat shock protein MCG18 - m [M.musculus] ESTs, Moderately similar to LM
850	9409	AI072841	n		MOUSE LAMININ GAMMA-2 C PRECURSOR [M.musculus]
851	9410	AI072842	w		ESTs
852	9468	AI073021	General		ESTs
853	9518	AI073223			EST
					ESTs, Weakly similar to CAH2 CARBONIC ANHYDRASE II
854	11183	AI 100768	-	HHs:carbonic anhydrase VIII	[R.norvegicus]
855	9190		е		ESTs ESTs
856	2029	AI100842	p		
857	5687	Al101006	e		ESTs
858	15192	Al101099	g,cc		Rat metallothionein-2 and metallothionein-1 genes, compl ESTs, Highly similar to ATPK M
859	17399	Al101157	o		ATP SYNTHASE F CHAIN, MITOCHONDRIAL [M.musculus
860	9339	Al101160	l,m,o		ESTs, Weakly similar to S46930 teg292 protein - mouse [M.musi ESTs, Weakly similar to AIF-C1
861	6321	Al101256	General		[R.norvegicus]
862	5421	AI101270	c .		RHO GDP-DISSOCIATION INHIBITOR 2 [M.musculus] ESTs. Highly similar to ERM HI
863	11910		General		ETS-RELATED PROTEIN ERM [H.sapiens]
864	23140	AI101608	е		ESTs
865	4119	Al101901	General		ESTs ESTs, Weakly similar to TRBP
					MOUSE PROTAMINE, 1 PNA
866	16324	Al102009	ь		MOUSE PROTAMINE-1 RNA BINDING PROTEIN [M.musculu ESTs, Moderately similar to unk

	SUMMARY			40.	Ally, Pooker No. 44920-50390 Dos. No. 179399
Soquation ID No.	(dentifier	Gor Bart: Add F Raf. Scop ID	Modeli Godin	Gane Namo	249 CASE 1 34 1
868	19373	Al102044	a	Drosophila polarity gene (frizzled) homologue	Rattus norvegicus mRNA for beta- carotene 15,15'-dioxygenase, complete cds
869	7051	AI102055	h		Rattus norvegicus clone ZG52 mRN sequence
870	6544	Al102064	c		ESTs, Weakly similar to AF147718 glycine decarboxylase [R.norvegicus
871	10227	AI102248	w		ESTs
872	23849	AI102318	e,q		ESTs
873	11954	Al102505	g.j.s	HMm:cytochrome c oxidase, subunit VIIIa	Rattus norvegicus liver cytochrome oxidase subunit VIII (COX-VIII) mRNA, 3' end of cds ESTs. Moderately similar to DAP12
874	2125	Al102519	c,k		[M.musculus] ESTs. Moderately similar to AF1615
875	5967	AI102520	у		1 GABA-A receptor-associated prote [R.norvegicus]
					ESTs, Moderately similar to AF1615 1 GABA-A receptor-associeted prote
875	5969	AI102520	p,w		[R.norvegicus]
876	11563	Al102560	General		ESTs
877	15190	Al102562	b,g,n,p,v		Rat metallothionein-i (mt-1) mma EST, Weakly similar to A60716 somatotropin intron-related protein
878	19769	Al102570	bb		RDE.25 - rat [R.norvegicus] ESTs, Highly similar to I49523 Mous
879	00.407	Al102578	General		primary response gene B94 mRNA,
880	22487	AI102578 AI102618	General		3'end - mouse [M.musculus]
881	123837	AI102620	q,t		IESTS
001	123031	A1102020	Q,I	solute carrier family 20	2318
882	23538	Al102727	g,General	(phosphate transporter),	solute carrier family 20 (phosphate transporter), member 1
883	17234	Al102741	c	Tissue inhibitor of metallogroteinase 3	Tissue inhibitor of metalloproteinase
884	5891	AI102745	k	The Land protection of	ESTs
885	6796	AI102753	General		ESTs
886	8837	AI102849	o,p		ESTS
887	15861	AI102868	i		ESTs, Weakly similar to phosphoserine aminotransferase [H.sapiens]
888	3533	Al102877	g		ESTs
889	13222	Al102977	General		ESTs, Highly similar to PCAF associated factor 65 beta [H.sapiens
890	6806	Al103018	o,u		ESTs
891	10659	AI103059	w.cc. General		ESTs
	17400	Al103097	_		ESTs, Highly similar to ATPK MOUSI ATP SYNTHASE F CHAIN, MITOCHONDRIAL [M.musculus]
892 893	3584	AI103097 AI103106	x.aa		ESTs [M.musculus]
B93	13298	AI103106	r,aa		ESTs
554	13250	A 103 143			ESTs, Weakly similar to UBC2_HUMAN UBIQUITIN- CONJUGATING ENZYME £2-17 KD
895	15981	AI103150	i,x		(R.norvegicus) ESTs, Highly similar to AF151893 1
896	3475	AI103245	w		CGI-135 protein [H.sapiens]
898	23619	AI103314	Р		ESTs ESTs, Moderately similar to T26785 hypothetical protein Y40B1B.7 -
899	24181	AI103320	e		Caenorhabditis elegans [C.elegans]
901	4355	AI103410	General		ESTs
902	7622	Al103472	General		ESTs
903	20918	AI103552	n		ESTs
04	21579	AI103572	General		ESTs

TABLE OF E	UMMARY:	4 2 4 2 3	Short	Manufacture 12 1	Affy, Docket No. 44921-503900
34.4			1		Dog. No. 179389
1000		Park Target	25200		
Soquence	1 3 4	GenBank Acc		2000年19.60	
D No. 1	Mentifier	Roll Sequid	Gode,	@conc Marrio	Unigene Cluster Title
					ESTs, Highly similar to RIE2
905	2222	Al103631	0		[M.musculus]
906	2752	AI103641	e		ESTs, Highly similar to sarcosine dehydrogenase [R.norvegicus]
907	4856	AI103708	i i		ESTs [K.norvegicus]
908	8990	AI103719	I,m,y,z		2010
909	15942	AI103738	r		ESTs
910	22885	AI103828	e,General		ESTs
911	15853	AI103841	x	Complement component 4	Complement component 4
	1			HHs:ubiquinol-cytochrome c	
	15050	AI103911		reductase, Rieske iron-sulfur polypeptide 1	Rat Rieske iron-sulfur protein mRNA, complete cds
912 913	12376	AI103939	j.y	polypepade 1	ESTs
913	12376	M 103939			ESTs, Weakly similar to AF151109 1
					putative BRCA1-interacting protein
914	22271	AI103947	о,у		[H.sapiens]
	1		1		ESTs, Highly similar to COXG
	1			HMm:RIKEN cDNA	MOUSE CYTOCHROME C OXIDASE
915	20833	AI104035	f,q	2010000G05 gene	POLYPEPTIDE VIB [M.musculus]
916	7010	Al104099	w		ESTs
917	22101	Al104251	General		ESTs
918	22833	Al104258	General		ESTs ESTs, Highly similar to translation
919	22211	Al104279			initiation factor eIF6 [M.musculus]
920	10720	AI104279	g,m		ESTs
921	15416	Al104340	-		ESTs
922	10991	AI104342	a		ESTs
-	11000	· · · · · · · · · · · · · · · · · · ·	_		ESTs, Highly similar to ATRTC actin
923	18831	Al104357	P		beta - rat [R.norvegicus]
924	7223	Al104373	e		ESTs
	1			Cytochrome c oxidase	Cytochrome c oxidase subunit VIa
925	23574	Al104520	e,g,s	subunit VIa (liver)	(liver)
	1	1	ŀ		ESTs, Weakly similar to NADH:ubiquinone oxidoreductase B1
926	18509	Al104528	q		Isubunit (H.sapiens)
927	11680	AI104525	V		ESTs
321	111000	76 104003	·		ESTs, Weakly similar to RENAL
					TRANSCRIPTION FACTOR KID-1
928	12342	AI 104658	w .		[R.norvegicus]
					Rat mitochondrial succinyl-CoA
					synthetase alpha subunit (cytoplasmit
929	23689	AI104685	r		precursor) mRNA, complete cds
	1	1			ESTs, Moderately similar to T50611 hypothetical protein
930	15377	AI104821	o.cc		DKFZp434H2035.1 [H.sapiens]
930	153//	A1104621	0,00		ESTs, Moderately similar to
	1			i	meningioma-expressed antigen 11
931	22957	AI104897	General		[H.sapiens]
				HHs:ATP synthase, H+	
				transporting, mitochondrial	Rattus norvegicus delta subunit of
932	18451	AI104953	0,8	F1 complex, delta subunit	F1F0 ATPase gene, complete cds
	1.				ESTs, Moderately similar to nucleolar
933	24375	AI104979	n,General		protein p40 [H.sapiens]
	1				ESTs, Moderately similar to
	1				SCOT_HUMAN SUCCINYL-COA:3- KETOACID-COENZYME A
					TRANSFERASE PRECURSOR
934	18278	AI105080	bb		[H.sapiens]
935	2196		a		ESTs
			*		ESTs, Weakly similar to T21641
	1		bb,	1	hypothetical protein F32B6.2 -
936	5199	AI105272	General		Caenorhabditis elegans [C.elegans]
937	12901	AI105301	0.8		ESTs

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TABLE OF	SUMMARY		TATE OF THE		Alby, Dooket No. 44921-51397 Dog. No. 179369
The state of	of the same	THE POST OF THE PARTY	al Property	1	Cook has present
Segumer ID NO.	identifier	Son Bands (Asself Red. Son ID	Model Goda	Gana Mama	Unisone Cluster Title
					ESTs, Weakly similar to T19707
	7700		cc,		hypothetical protein C34C6.5 -
938	7700	AI105383 AI105398	General		Caenorhabditis elegans [C.elegans]
939	13343	MI 102390	-10	<del></del>	ESTs, Moderately similar to
940	22931	AI105417	e,Genera		NEURONAL PROTEIN 3.1
010		1	12,220,000		ESTs, Highly similar to GCDH
		1		HMm:glutaryl-Coenzyme A	MOUSE GLUTARYL-COA DEHYDROGENASE PRECURSOR
941	23596	Al 105435	bb .	dehydrogenase	(M.musculus)
			-		ESTs, Moderately similar to
			1		DHSD_HUMAN SUCCINATE
942	15893	AI 105465	0		DEHYDROGENASE [H.sapiens]
943	12660	AI111492	Connect		ESTs ESTs
944	4479	Al111599	General	<del> </del>	ESTs, Highly similar to H33_HUMAN
945	24211	Al111853	k		HISTONE H3.3 [R.norvegicus] ESTs. Weakly similar to FKB5
			1	1	MOUSE 51 KDA FK506-BINDING
946	2539	AI111960	lr.	1	PROTEIN [M.musculus]
010	12000	74111000	1		EGF-CONTAINING FIBULIN-LIKE
			1		EXTRACELLULAR MATRIX
		1	1	I	PROTEIN 1 PRECURSOR (FIBULIN
		1		ł	3) (FIBL-3) (T16 PROTEIN)
947	5729	Al111990	k		[R.norvegicus]
			i.q.u,		Rattus norvegicus osteoactivin mRN
948	4049	AI112012	General		complete cds
949	12908	Al112043	!		ESTs
950	20041	Al112161	General		ESTs ESTs
951 952	12937	AI112462 AI112571	b	<b></b>	IESTs
552	13/13	A1112371	10	-	ESTs, Moderately similar to
				1	UDP HUMAN URIDINE
953	12921	AI112636	General	l .	PHOSPHORYLASE [H.sapiens]
954	12965	Al112928	General		ESTs
955	7499	Al112986	General		.ESTs
				1	ESTs, Moderately similar to
	1				megakaryocyte stimulating factor
956	4969	AI113008	r		[H.saplens]
			1		ESTs, Highly similar to BC-2 protein
957	11817	Al136295	1		[H.sapiens] ESTs, Weakly similar to JC4975
		1	1		plexin 2 precursor - mouse
959	11165	AI136372	c		[M.musculus]
960	4045	AI136460	cc		JESTs
961	12782	Al136493	lk		ESTs
962	6850	Al136665	lh	ecto-apyrase	ecto-apyrase
963	20920	Al136891	p,v	butyrate response factor 1	butyrate response factor 1
			1		ESTs, Highly similar to 6.2 kd protein
964	6552	Al137062	0		[H.sapiens]
965	22722	Al137211	1		ESTs
			o,General		ESTs, Highly similar to oxysterol-
966 967	13111	Al137224 Al137302	o,General		binding protein [M.musculus]
968	14349	AI137302	d d		ESTS
969	9166	Al137406	General		ESTS
					ESTs, Weakly similar to ZF37_RAT ZINC FINGER PROTEIN 37 (ZFP-37
970	9525	AI137516	Įr .		[R.norvegicus]
971	6638	AI137579	General		ESTs
					ESTs, Highly similar to IMB3_HUMAI IMPORTIN BETA-3 SUBUNIT
972	7414	AI137586	General		[H.sapiens]
973	11321	Al137752	z		ESTs
974	23473	Al137932	11	i	ESTs

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TABLE OF S				维克尔特 人名	Ally, Octat No. 41231 5051W Dog. No. 1793317
Segrenco 10 No.	de par	Gran Brents Accell	Model	NAME OF TAXABLE PARTY.	DESCRIPTION OF THE PROPERTY OF
0000	Deleccontries	Raf San D	Godo	@ano Namo	Uniceno Cluster Title
975	13158	Al138024	1		ESTs
9/3	13136	A1130024	-	UDP-glucose:ceramide	UDP-glucose:ceramide
976	13467	AI138034	cc	glycosyltransferase	glycosyltransferase
977	11377	AI138105	v	gycocymanoiciusc	ESTs
978	6790	AI144801	d,h		ESTs
979	6506	AI144919	j,l,y		ESTs
980	8027	AI144958	i		ESTs
982	14458	Al145095	General		ESTs
983	7476	AI145202	9		ESTs
					ESTs, ESTs, Weakly similar to GTP-
984	17545	Al145384	e		binding protein [H.sapiens]
985	17479	Al145385	r		ESTs
986	4194	Al145387	ļr		ESTs
					ESTs, Weakly similar to T31511
987	8634	414.5700	L		hypothetical protein Y116A8C.9 -
98/	18634	Al145722	9		Caenorhabditis elegans (C.elegans) ESTs, Weakly similar to T21659
				1	hypothetical protein F32D8.4 -
988	8339	AI145761	y,General		Caenorhabditis elegans [C.elegans]
900	10335	M143/01	y,General		ESTs, Highly similar to pseudouridine
989	2059	AI146005	h,General	i e	synthase 1 [M.musculus]
505	12030	71140003	n, content		Rattus norvegicus small zinc finger-
990	23224	AI146033			like protein (TIM9a) mRNA, partial cd
				branched chain keto acid	
	ı			dehydrogenase E1, beta	branched chain keto acid
991	5232	AI168942	bb	polypeptide	dehydrogenase E1, beta polypeptide
992	18472	AJ168975	u		ESTs
992	18473	Al168975	u		ESTs
993	13235	Al169020	r		ESTs
			o.y.		
994	11618	AI169115	General		ESTs
	1	1			ESTs, Weakly similar to T23206
					hypothetical protein K01H12.1 -
995	17386	AI169144	0		Caenorhabditis elegans [C.elegans] ESTs, Weakly similar to HP33
996	10984	AI169156	o,u		[R.norvegicus]
997	8205	Al169176	e .		ESTs
981	0203	ALIOS ITO	-		ESTs. Highly similar to RADIATION-
					INDUCIBLE IMMEDIATE-EARLY
998	12979	Al169177			GENE IEX-1 [M.musculus]
330	1.207.0				ESTs, Highly similar to A47318 RNA-
	1				binding protein Raly - mouse
999	2607	Al169211	c		[M.musculus]
				ATPase, H+ transporting,	
			1	lysosomal (vacuolar proton	ATPase, H+ transporting, lysosomal
1000	22661	AI169265	s,z	pump), subun	(vacuolar proton pump), subunit 1
1001	13239	AI169278	g.j.l.y.z		ESTs
1002	24162	Al169279	m		ESTs
					ESTs, Highly similar to Y069_HUMAN
					HYPOTHETICAL PROTEIN KIAA0069
1003	16879	AI169284	0		[H.sapiens]
					ESTs, Highly similar to H33_HUMAN
1004	24213	AI169289	р		HISTONE H3.3 [R.norvegicus]
1005	13240 5931		cc		ESTs ESTs
1006	5931	A1169324	D		ESTs, Highly similar to CGI-117
			d		
1007	11979	AI169337 AI169365	cc		protein [H.sapiens] ESTs
1000	11919	U109303	~	arachidonic acid	12010
1009	10947	AI169372		epoxygenase	arachidonic acid epoxygenase
1010	20697		0,0	choviaciese.	ESTs
1011	8234		Z Z		ESTS
1012	18343		•		ESTs
1013	10839		l.m		ESTS
					ESTs, Weakly similar to hypothetical

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Table 1: S	UMMARY			1 23 3 19	Affy, Docket No. 44221-3139V Dos. No. 179339
Sequence DNo	Navi Mor	Gonernik Ardi Roll Sug (10	Model Gode	Gane Mamo	Uniperc Greater Alle
					ESTs, Moderately similar to T47184
1015	22575	*******	L		hypothetical protein
1015	225/5	Al169728	<del></del>		DKFZp434F1526.1 [H.sapiens] ESTs, Highly similar to GENE 33
1016	804	AI169756	cc		POLYPEPTIDE [R.norvegicus]
1017	8213	AI169883	IP	ferritin light chain 1	ferritin light chain 1
1018	3916	AI169947	i,bb		ESTs
1019	3733 14179	AI170053 AI170224	u,General		ESTs ESTs
1020	141/9	A1170224	cc		ESTs. Moderately similar to class II
1021	11406	AI170263	r	ł	cytokine receptor 4 [M.musculus]
					ESTs, Weakly similar to ZNT1 RAT ZINC TRANSPORTER 1
1022	3547	Al170279	General		[R.norvegicus]
					ESTs, Weakly similar to CL36 RAT LIM DOMAIN PROTEIN CLP-36
1023	11524	AI170340	j.y,z		[R.norvegicus]
1024	2729	AI170363	e,i		ESTs
1025	18811	AI170525			ESTs
1026	22524	AI170542	h		ESTs
1027	24048	AI170570	a,g		ESTs, Highly similar to CGI-10 protei [H.sapiens]
1027	24040	A1170070	a.y		ESTs, Moderately similar to AF16158
					1 GABA-A receptor-associated protei
1028	5968	AI170692	y,aa		[R.norvegicus]
029	9757	Al170693	b		ESTs
1030	18905	AI170770	e,s		ESTs, Highly similar to NADH- ubiquinone oxidoreductase NDUFS2 subunit [H.sapiens]
1031	16170	AI170894			ESTs, Moderately similar to adipophilin [H.sapiens]
	12.11.2	141144		Hyaluronan mediated motility	Hyaturonan mediated motifity recepto
1032	7089	AI171185	c .	receptor (RHAMM)	(RHAMM)
1033	17591	Al171354	b		ESTs
1034	13285		. 1		ESTs, Weakly similar to AIF-C1
034	13285	Al171361	h	HHs;NADH dehydrogenase	[R.norvegicus] ESTs, Moderately similar to
1035	4428	Al171362	a	(ubiquinone) Fe-S protein 1 (75kD) (NADH-coenzyme Q reductase)	NUAM_HUMAN NADH-UBIQUINONE OXIDOREDUCTASE 75 KD SUBUNI' PRECURSOR [H.sapiens]
					ESTs, Highly similar to S16788
036	18126	AI171369	w	-	probable reverse transcriptase - rat [R.norvegicus]
			- 1		ESTs, Moderately similar to 68MP
037	23253	AI171448	, 1		MOUSE 6.8 KD MITOCHONDRIAL PROTEOLIPID (M.musculus)
037	23255		m.		PROTEOLIPID (M.musculus)
038	4584		General		ESTs
					ESTs, Moderately similar to NADH:ubiquinone oxidoreductase B2:
	11158		r,s		subunit [H.sapiens]
040	15345	AI171587			ESTs
041	21183	AI171676	k		ESTs
					Rattus norvegicus kynurenine aminotransferase/glutamine transaminase K (Kat) gene, complete
		AI171692			cds,ferritin light chain 1
		AI171794 AI171800			ESTs
			DC .		ESTs ESTs
			<u>i</u>		ESTs
					Rattus norvegicus F1-ATPase epsilon subunit mRNA, nuclear gene encodino
047	17204	AI171844			mitochondrial protein, complete cds

Table 1: S	UMMARY			T. T.	Athy. Dooket No. 44921-50330 Dec. No. 179336
Sequence D'No	Manificar	ConBank Acel Rof. Scoplib	Modal Gode	Genra Marrio	Unigane Chuster Title
1048	4420	AI171916	m		ESTs
					ESTs, Highly similar to T08675 hypothetical protein
1049	3266	AI171948	l,m		DKFZp564F0522.1 [H.sapiens]
1050	19012	AI172056	1		ESTs
1051	11205	AI172057	a,q,bb		ESTs ESTs, Weakly similar to T33238
	1	1		1	hypothetical protein T10H9.3 -
1052	6057	AI172102	ь	1	Caenorhabditis elegans (C.elegans)
1053	19128	AI172103	m		ESTs
					Rat mRNA for 5E5 antigen, complet
1054	15673	AI172107	z	I	cds
1055	6630	Al172184	n		ESTs
			l		ESTs, Weakly similer to FETA RAT ALPHA-FETOPROTEIN
1056	11968	AI172208 AI172263	bb		PRECURSOR [R.norvegicus]
1058	23313	AI172263	i,m		ESTs ESTs
1038	23313	M11/22/1	10		ESTs, Moderately similar to A53004
	1		1	1	transcription elongation factor S-II -
1059	2140	AI172272	General	j .	[R.norvegicus]
				1	ESTs, Weakly similar to \$43056
	1	1	I.p.	1	hypothetical protein - mouse
1080	15382	AI172302	General	L	[M.musculus]
1061	18689	Al172329	1		ESTs
1062	17887	AI172414			Rattus norvegicus apoptosis- regulating basic protein mRNA, complete cds
1002	17007	M1172414	-		ESTs, Highly similar to A44437
1063	3042	AI172447	General		regenerating liver inhibitory factor RL/IF-1 - rat [R.norvegicus]
				HMm:isocitrate dehydrogenase 2 (NADP+),	ESTs, Weakly similar to IDHC RAT ISOCITRATE DEHYDROGENASE
1064	17291	AI172491	bb	mitochondrial	[R.norvegicus]
1065	26222	Al172506	ρ		
1066	13095	Al172595	Comment		ESTs
1067	8795	AI172618	General		ESTs ESTs, Weakly similar to T31067 BIR
				l	repeat containing ubiquitin- conjugating enzyme BRUCE - mouse
1068	6454	Al175342	j,l,m,y	1 .	[M.musculus]
					ESTs, Highly similar to RRAS MOUS RAS-RELATED PROTEIN R-RAS
1070	4445	AI175466	x		[M.musculus]
					ESTs, Highly similar to NHPX RAT NHP2/RS6 FAMILY PROTEIN
1071	3418	AI175475	m		YEL026W HOMOLOG [R.norvegicus
					ESTs, Moderately similar to AF14505 1 translation elongation factor 1-delta
1072	18507	AI175551	bb		subunit [R.norvegicus]
1073	10217		w		ESTs
1074	7262	AI175833	j,m,x		ESTs
1075	19004 22352	AI175875 AI175959	r I.General		ESTs ESTs
1076	22352	A1175959	I,General		ESTs, Highly similar to pinn
1077	7022	Al176041	h,n		[H.sapiens]
1078	21467	AI176061	t		ESTs, Weakly similar to tazarotene- induced gene 2 [H.sapiens]
079		AI176160	General		ESTs
080 .	14159	AI176169	9		ESTs
	21742		w		ESTs
					ESTs, Highly similar to P55-C-FOS PROTO-ONCOGENE PROTEIN
082	10182	AI 176 185	v .		[R.norvegicus]
083	22765	AI176265	General		ESTs

TABLE 18	SUMMARY	* 94 MA		UA -	Affy, Docket No. 43921-5039W Doc. No. 1793997
Seguence		Sor Book Ace	Model		
DMO.	Mentitier	Roft Son ID	ලාුණු .	Gene Name	Unligano Cluster Title
1084	6905	Al176275	a		ESTs, Weakly similar to GSHH RAT PHOSPHOLIPID HYDROPEROXIDE GLUTATHIONE PEROXIDASE (R.norvegicus)
1004	16805	A11/02/5	i		UAP1_HUMAN UDP-N- ACETYLHEXOSAMINE
1085	12999	AI176276	cc	-	PYROPHOSPHORYLASE [H.sapiens ESTs, Highly similar to
					SMD2_HUMAN SMALL NUCLEAR RIBONUCLEOPROTEIN SM D2
1086	16438	AI 176294	e		[H.sapiens]
1087	21130	AI176298	у		ESTs
1088	3014	AI176362	е		ESTs
1089	15015	AI176363	]r	l	ESTs
1090	19006	AI176393	x	1	ESTs
	i	1		1	ESTs, Moderately similar to QPS1
1091	20001	Al176396	10		[H.sapiens]
1092	12174	AI176435	j,m		ESTS
1093	15191	AI176456	b,o,t,v,cc		Rat metallothionein-2 and metallothionein-1 genes, complete cd
			l	.i	ESTs
1094	24236	Al176473	d,Genera	<u> </u>	
					ESTs, Moderately similar to HS9B RAT HEAT SHOCK PROTEIN HSP
1095	16518	Al 176546	v		90-BETA [R.norvegicus]
1096	2161	Al176592	General		ESTs
1097	12436	Al176610	General		ESTs, Weakly similar to \$63220 probable membrane protein YNL247w - yeast (Saccharomyces cerevisiae) IS.cerevisiael
1098	2538	AI176616	I,v, General		ESTs
1099	18525	Al 176792	u		ESTs
1100	23449	AI176828	10		ESTS
1101	23299	Al176839	General		ESTs
1102	3580	AI176848	le		ESTs
1102	10000	1 110010	-		1277
1103	22103	Al176849	d.Genera		ESTS
1104	16036	AI176855	f		ESTs
1104	110000		İ		ESTs, Highly similar to phosphomannomulase Sec53p
1105	15588	AI176916	General	i	homolog [M.musculus]
1106	16917	Al 176951	li .		ESTs
1107	16124	Al176963	cc		Rattus norvegicus transcription factor MRG1 mRNA, complete cds
	13.12.		1		
1108	15146	Al176969	b,General		ESTs. Weakly similar to PSE-binding
1109	5786	AI177058	lf	1	factor PTF delta subunit (H.sapiens)
1110	2852	Al177059	c		ESTS
,,,,,	1				ESTs, Highly similar to AF139894 1 RNA-binding protein alpha-CP1
1112	3156	AI177092	9		[M.musculus] Rat adenine
1113	14384	AI177096	a	HMm:adenine phosphoribosyl transferase	phosphoribosyltransferase (APRT) gene, complete cds
					ESTs, Weakly similar to C1QB RAT COMPLEMENT C1Q SUBCOMPONENT, B CHAIN
1114	13310	AI177119	General		PRECURSOR [R.norvegicus] [ESTs, Highly similar to CGI-10 protein
	1	Al177341	g.p.s,u		[H.sapiens]
1115	24049	A1177341	18.p.s.u		#:::
1115 1116 1117	15964 14989	Al177360 Al177366	o,General	Integrin, beta 1	ESTs

-83-							
TABLE 1: 8	SUMMARY				Ally, Dockel No. 44928-5 Doc. No. 174		
Sontance	100	GenBank Acc	Modal	2 (D)(2.5)			
(1) (1) (1)	Cleriffier	Ref. Seq. ID	Gode	Cenno Namo	Unitgano Olivetar Titlo		
1119	3006	AI177395			Rattus norvegicus substrate bi subunit of type II 5'-deiodinase mRNA, complete cds		
1119	13000	A11/1393	1		Rattus norvegicus mRNA for h		
1120	17570	AI177683	r		protein, partial		
1121	9521	Al177706	b		ESTs		
1122	14425	AI177755	g,General		ESTs		
1123	10611	AI177790	j,m		ESTs		
1124	5356	Al177813	cc		ESTs, Moderately similar to S2 modulator recognition factor 1 [H.sapiens]		
1125	11791	AI177843	General		ESTs, Highly similar to SAS_H SARCOMA AMPLIFIED SEQU [H.sapiens]		
1126	14484	AI177867	General		ESTs, Weakly similar to putation		
1120			General		protein [R.norvegicus] ESTs, Weakly similar to DRAL		
1127	5780	AI177869	General		[R.norvegicus]		
1128	19184	AI178025	General		ESTs, Highly similar to TGIF M 5'-TG-3' INTERACTING FACTO [M.musculus]		
1120	10104	N1170023	General		ESTs, Moderately similar to C1		
1129	6059	AI178245	c,General		protein [H.sapiens]		
1130	23248	AI178267	y		ESTs, Weakly similar to hypoth protein (H.sapiens)		
					ESTs, Weakly similar to YAE6_YEAST HYPOTHETICA KD PROTEIN IN ACS1-GCV3		
1131	4073	Al178272	0		INTERGENIC REGION (S.cere		
1132 1133	7838 18996	Al178291 Al178326	e		ESTs ESTs		
1133	10990	A1176326			ESTs, Highly similar to I49523 primary response gene 894 mF		
1134	22488	Al178392	. b		3'end - mouse (M.musculus)		
1135	18800	AI178504	n,p,aa		ESTs		
1136	22197	AI178527	g.General		ESTs		
					ESTs, Highly similar to MCM3 MOUSE DNA REPLICATION LICENSING FACTOR MCM3		
1137	3401	Al 178684	bb		[M.musculus]		
1138	17713	AI178700 AI178735	jm le		ESTs ESTs		
1139	123567	AI178735 AI178746	v.General		ESTs ESTs		
					Rattus norvegicus alpha-globin		
1141	18907	AI178971 AI178979	lc i		gene, complete cds		
1142	5887	Al179099	g,t		ESTS, Moderately similar to Va [M.musculus]		
1144	8477	Al179167	b,e, General		ESTs		
1145	3348	AI179288	u,v		ESTs .		
1146	13608	Al179314	8		ESTs		
1147	8849	Al179315	g.p		ESTs		
1148	13611	AI179378	v,General		Rattus norvegicus mRNA for pre precursor, complete cds		
1149	15438	Al179399		collagen type V, alpha 2	collagen type V, alpha 2		
1150	13614	AI179407	e,t, General		ESTs, Moderately similar to RB MOUSE RAS-RELATED PROT RAB-17 [M.musculus]		
1151	15042	AI179422	b.General		ESTs		
1152	2768	AI179422	i,General		JESTS		
1153	24041	AI179580	bji		ESTs		

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WARREN O	Signification .		100		Atty, Docket No. 44121-2333 Doc No. 1773-4
Scouence	504 SHOE	GonBank Acel	Model		
	Octoor Olors	Ref. Sec 10	Gode	Gana Namo	Universe Christer Title
IS ONLY	ndeatinetes	Kerseed ID	Second VIV	GG/G KEING	
1154	19822	Al179599	o.Genera		R.norvegicus mRNA for ras-related GTPase Rab29
1104	19022	W114998	о,овнега		JOTP 858 R8029
1155	23270	AI179601	g,Genera		ESTs
1156	5901	AI179605	A CONTROL	-	ESTs
1157	16081	AI179610	g.i.p	Heme oxygenase	Heme oxygenase
1158	14564	AI179717	k	Traine originates	ESTs
1159	7918	AJ179750	General		ESTs
1160	6647	AJ179795	g		ESTs
			1	hypothetical protein	
1161	9097	AI179875	o,General	LOC56728	hypothetical protein LOC56728
					ESTs, Highly similar to GAP
					JUNCTION BETA-2 PROTEIN
1162	23989	Al179953	а	1	[R.norvegicus]
1163	12899	AI179967	b	·	ESTs
1164	1687	AI179971	c	Hemoglobin, alpha 1	Hemoglobin, alpha 1
1165	22569	AI179979	General		ESTs
			1		ESTs, Highly similar to L-3-
			i	HHs:phosphoserine	phosphoserine phosphatase
1166	23514	AI179986	o,General	phosphatase	[H.sapiens]
1167	15892	Al179988	c,General		ESTs
					ESTs, Highly similar to Unknown
1168	12402	AI180004	g		[H.sapiens]
					ESTs, Moderately similar to testis
1169	5443	AI180165	General		specific DNAj-homolog [M.musculu
					ESTs, Highly similar to A Chain A,
					The Crystal Structure Of Human
				1	Eukaryotic Release Factor Erf1-
				1	Mechanism Of Stop Codon
				1	Recognition And Peptidyl-Tma
1170	5481	AI180170	General		Hydrolysis [H.sapiens]
1171	24028	Al180239			ESTs
					ESTs, Moderately similar to JC497
				ĺ	oxidative stress protein A170 - mou
1172	17089	AI180281	9		[M.musculus]
					ESTs, Moderately similar to
1173		******			Y273_HUMAN HYPOTHETICAL
	3701	Al180306	aa		PROTEIN KIAA0273 [H.sapiens]
1174	3352	Al180334	m		ESTs .
					ESTs, Highly similar to AF114169 1
					nucleotide-binding protein short for
1175	24368	Al180392	l,m		[M.musculus]
					ESTs, Moderately similar to SPA1
					MOUSE GTPASE-ACTIVATING
1176	14337	Al180414	С		PROTEIN SPA-1 [M.musculus]
		41007047			Rattus norvegicus chemokine CX30
1177	19080 22838	AI227647	j,y,z		mRNA, complete cds
1178	22838	AJ227667	aa		ESTs Highly similar to T00367
	eres	41007764	Conner		hypothetical protein KIAA0665
1179	6765 ,	AJ227761	i,General		[H.sapiens] [ESTs, Weakly similar to AF187065
		41007007			p75NTR-associated cell death
	24054	AI227867	General		executor [R.norvegicus]
1181	7324 23898	AI227885 AI227987	d		ESTs ESTs
102	530A0	MIZZIBOI	u .	Peptidylglycine alpha-	Peptidylglycine alpha-amidating
	1651	A1220060			
1183	14237		n,w e	amidating monooxygenase	monooxygenase EST
1104	14231	MI220120	•		ESTs, Weakly similar to
					C211 HUMAN PUTATIVE PROTEIN
1185	14242	AI228197	General		C21[HUMAN PUTATIVE PROTEIN C21ORF18 [H.sapiens]
			O Ceneral		ESTs [H. sapiens]
1100	10919	MZZOZJO			ESTs, Highly similar to p97
	22915	AI228299			homologous protein (H.sapiens)

Segremon	TABLE 1: S	UMMARY				Athy, Docket No. 44924-5039 Dock No. 17938
		- L- X		18 St. 18	115 m. 1 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 -	Address of the state of the sta
1188   8917   AJ22831   Ceneral   EST's   EST's, Weaky similar to   EST's   EST's   EST's   Weaky similar to   EST's   Weaky similar to   EST's   Weaky similar to   Unique to   EST's   Weaky similar to   Unique to   EST's   Weaky similar to   Unique to   EST's   Weaky similar to   Unique to   EST's   Weaky similar to   Unique to   EST's   Weaky similar to   Unique to   EST's   Weaky similar to   Unique to   EST's   Weaky similar to   Unique to   EST's   Weaky similar to   Unique to   EST's   Weaky similar to   Unique to   EST's   Weaky similar to   Unique to   EST's   Weaky similar to   Unique to   EST's   Weaky similar to   EST's	- marin			Goroo Morroo	Modernoo Observer 700e	
1897   A228313   C.General   ESTs   ESTs   Weakly similar to AFG   VEAST AFG IFF   AFG   VEAST AFG IFF   AFG   VEAST AFG IFF   AFG   VEAST AFG IFF   AFG   VEAST AFG IFF   AFG   VEAST AFG IFF   AFG   VEAST AFG IFF   AFG   VEAST AFG IFF   AFG   VEAST AFG IFF   AFG   VEAST AFG IFF   AFG   VEAST AFG IFF   AFG   VEAST AFG IFF   AFG   VEAST AFG IFF   AFG   VEAST AFG IFF   AFG   VEAST AFG IFF   AFG   VEAST AFG IFF   AFG   VEAST AFG IFF   AFG   VEAST AFG IFF   AFG   VEAST AFG IFF   AFG					Secure regions	
ESTs, Weakly similar to   AFG LYEAST AGS   PR		8917				
1910	1189	15879	A1220313	, Ceneral		
1907   1972						
1919	1100	12727	A1220226	o Genera		
ESTs, Weakly similar to   Implicit linguish person   Implicit linguish   Implicit lingui					1	
1922   13730   Al228356   a   Uniquitin ligase Noded -   R. Novegoda   1937   13745   Al228494   b.cc   EST   R. Novegoda   1937   13745   Al228494   b.cc   EST   R. Novegoda   1937   13745   Al228567   s   EST   Novegoda   1937   13744   Al22857   s   EST   Novegoda   1937   13744   Al22878   c   EST   Novegoda   1938   s   1938	1101	UTUE	THEE	- Contract		ESTs, Weakly similar to S70642
1973   AZ28566   a   [R.norvegicus]				į .		
1934   1974	1192	13730	AI228356	a		
1994	1193	13745	AI228494	lb.cc		EST
M172_HUMAN MEMBER						ESTs, Weakly similar to
1944   4217   Al228587   8   COMPONENT, CHROM SURFACE MATRICR 2   ESTS, Weakly similar for component of the component of th				1	1	M172_HUMAN MEMBRANE
ESTA, Weakly similar to   hypothesical profess R14-					1	COMPONENT, CHROMOSOME 1
195	194	4217	AI228587	s	1	SURFACE MARKER 2 [H.sapiens
1905   1905						ESTs, Weakly similar to T16757
196					1	hypothetical protein R144.3 -
197   11805   Al22882   e   ESTs						Caenorhabditis elegans [C.elegan
1903	196					ESTs
EST, Highly similar to Dishborro of activated STA	1197	11605	Al228682	в		
1999   13771	1198	13203	AI228728	r		
1999   19771   AZ28488   Q						ESTs, Highly similar to protein
1920   1918   Al 22936   r   ESTs   ESTs						inhibitor of activated STAT protein
1925   1925   1926	1199			9		
Vesicle-associated membrane protein   Vesicle-associated membrane pr						
1820   1820	201	8235	Al229154	k		ESTs
18203						
1926				l		Vesicle-associated membrane pro
1914   1914   1914   1914   1914   1914   1914   1914   1915				r	(synaptobrevin 2)	
1205   4640   A228404   x.aa   ESTs   ESTs   Moderately similar						
ESTs, Moderately similar to						
2056   25543   Al229421   I   MOUSE MAP RINASE2   MIN NASE 2   MIN N	1205	4640	A/229404	x.aa		
23953				1 .	l	
ESTs, Moderately smills				l.		
1207	206	23563	A1229421	-		
1926				1		
1993   A229598   bb   EST4   EST4   Highly similar to KI   ThryMolNE (RNASE, CV   RNAVE)   EST5, Highly similar to KI   ThryMolNE (RNASE, CV   RNAVE)   EST5, Highly similar to KI   ThryMolNE (RNASE, CV   RNAVE)   EST5, Highly similar to KI   ThryMolNE (RNASE, CV   RNAVE)   EST5, Highly similar to KI   ThryMolNE (RNASE, CV   RNAVE)   EST5, Highly similar to KI    2007	45400	A1220407				
ESTs, Highly semilar to K   THYMIDINE KRASE, CV   ESTs   ESTs   ESTs, Highly similar to K   ESTs, Highly similar to K   NADP-thymicine couldron			bb			
200	200	10190	AIZZOOOD	100		
19243   Al229638   X	1					
2078   A229647   P   His.NADH dehydrogenase (eb)culronity Fe-5 protein 3	200	10242	A1220629	l.		(P nonmaigue)
HHS.NO.H dehydrogenase   HHS.NO.H dehydrogenase   Line				<u></u>		IFSTs
(ubiquinon) Fe-S pricini 3   (3TS, Highly similar to (300) (ANDH-Use) Fe-S pricini 3   (300) (ANDH-Use) Fe-S pricini 3   (300) (ANDH-Use) Fe-S pricini 3   (300) (ANDH-Use) Fe-S pricini 3   (300) (ANDH-Use) Fe-S pricini 4   (300) (ANDH-Use) Fe-S pricini 5   (300) (ANDH-Use) Fe-S pricini 6   (300) (ANDH-Use) Fe	1210	23076	AIZ23047	P	MHs:NADH dahydrocanasa	E318
1211   3099   AZ29580   Control					(ubiculação) En-S protein 3	ESTe Highly eimilar to
1211   3099   AZ29580   0   reductase  NDUFS3 submit   Nagara					(30kD) (NADH-coenzyme O	NADH:ubiquinone oxidoreductase
Sprague-Carwing Debats	1211	3099	A1229680			
1212   19508   AIZ29698   bb   mydroxybuyrala delytyric		0000	, all and a			Sprague-Dawley D-beta-
212   19508   AJ22698   bb   miRNA, complete cds   Rattus norrogicus miRNA   Rattus norrogicus miRNA   Rattus norrogicus miRNA   Dela-lubulin, complete cds   EST Is, Moderably similar   NADC, HUMAN NIOCITIS   PARTOPHOSPHOPTICALS   ESTS, Weakly similar for   ESTS, Weakly similar for   NADC, NAD						hydroxybutyrate dehydrogenase
Rattus norvegicus mRNA	212	19508	A1229698	bb		
213   15977   Al229707   X						Rattus norvegicus mRNA for class
ESTs. Moderately similar   NADC_HUMAN NICOTIN   N	213	13977	AI229707	×		
NUCLEOTIDE				-		ESTs. Moderately similar to
214         23983         ANGEROR         V         PYROPHOSPHORTVLAG           215         2688         A229733         e         ESTs         ESTs           216         13874         A229832         g         protoin PLaspeirst         ESTs, Weakly siniser to protoin PLaspeirst           217         12587         A229879         General         ESTs, Weakly siniser to protoin PLaspeirst           218         20591         A229993         Um         ESTs           218         20591         A229993         Lm         ESTs           218         20591         A229979         Lm         ESTs	- 1					NADC HUMAN NICOTINATE-
214         23983         AND PROPHOSPHORTVLAGE           215         2688         A229793         e         ESTs           216         13874         A229832         g         periodic Plasapiers           216         13874         A229832         g         protoin Plasapiers           ESTs         Very Property         ESTs         Very Property           217         12587         A229979         General         TRANSPORTER 2 (Russ)           218         20591         A229993         Um         ESTs           219         25091         A229993         Lm         ESTs						NUCLEOTIDE
215   2688   AZ29793   e   EST4   EST4   EST5, Weakly similar to F   CST4   EST5, Weakly similar to F   CST5, Weakly similar to F   CST5, Weakly similar to F   CST5, Weakly similar to K   CST5, We	214	23983	AI229708	v		PYROPHOSPHORYLASE (H.sapir
216   13874   A229832   ST., Weakly similar to Paper				e		
216         13874         Al229832         9         proloin [H.sapiens]           ESTS. Weaksy imitar to MONOCARBOXYLATE         ESTS. Weaksy imitar to MONOCARBOXYLATE           217         12587         Al229979         General         TRANSPORTER 2 [Rnor           218         20591         Al229993         I/m         ESTs           a.b.d.         ESTs         Al229973         ESTs						ESTs, Weakly similar to KIAA0859
ESTs, Weakly smilar to A   MONOCARBOXYLATE   TRANSPORTER 2   R.nor   TRANSPORTER 2   R.nor   ESTs   AJ229993   J.m   ESTs   AJ24993   A.b.d.   ESTs   AJ24993   AJ24	216	13874	AI229832	g		protein [H.sapiens]
12587   AIZ29979   General   MONOCARBOXYLATE   TRANSPORTER 2 [R.nor   20591   AIZ29993   Lm   ESTe   ESTe   AIZ29978   A.b.d.   ESTe   Control			***************************************			ESTs, Weakly similar to MOT2 RA
1217   12587   Al229979   General   TRANSPORTER 2   R.nor	l					MONOCARBOXYLATE
a,b,d.	217			General		TRANSPORTER 2 [R.norvegicus]
a,b,d,	218	20591	AI229993	I,m		ESTs
040   D. 1040						
	219	24042		General .		ESTs
Rattus norvegicus mRNA						Rattus norvegicus mRNA for voltag

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				-86-	
TABLE 1:	SUMMARY			7.00	Alty. Doelet No. 41921 J Dog. No. 175
Soguera D No:		GenBapk Accl. Ref-Seq ID	Model Gode	Game Marrie	Laigene Clusier Tilb
				HMm:NADH dehydrogenase (ubiquinone) 1 alpha	ESTs, Highly similar to NIMM I NADH-UBIQUINONE OXIDOREDUCTASE MWFE
1221	17672	AI230074	d	subcomplex, 1	SUBUNIT [M.musculus]
1222	3652	AI230113	General		Rattus norvegicus hfb2 mRNA, complete cds
1223	18650	AI230121	aa		ESTs, Weakly similar to HS9B HEAT SHOCK PROTEIN HSP
1223	18650	AI230121	188		BETA [R.norvegicus] ESTs, Moderately similar to CHD3_HUMAN CHROMODON HELICASE-DNA-BINDING PRO
1224	13025	AI230173	c		3 [H.sapiens]
1225	4280	AI230247	Z	selenoprotein P, plasma, 1	selenoprotein P, plasma, 1
1226	18528	AI230284	General		ESTs ESTs, Moderately similar to T4 hypothetical protein DKFZp434
1227	7084	AI230362	р		(H.sapiens)
1228	20895	AI230549	b,n		ESTs
1229	12961	AI230554	General		ESTs Rattus norvegicus mRNA for ga
1230	15636	AI230616	r		2 related protein, complete cds
1231	4121	Al230647	j,m		ESTs ESTs, Highly similar to HN1
1232	14388	A1230702	General		1ES IS, Highly similar to HN1
1233	18529	Al230716	x.General		ESTs
1234	13618	Al230724	General		Rattus norvegicus phosphoinos phosphatase SAC1 mRNA, con cds
1235	. 8304	AI230746	cc		ESTs
1236	4731	Al230773	е		ESTS
	İ				ESTs, Moderately similar to CDN3_HUMAN CYCLIN- DEPENDENT KINASE INHIBIT
1237	14430	AI230798	c,k,x		[H.sapiens] ESTs, Highly similar to AF1028
1238	45007		bb	HHs:Alg5, S. cerevisiae,	dolichyl-phosphate beta-
1238	16627	AI230822	IDD	homolog of	glucosyltransferase [H.sapiens] Rattus norveolcus mRNA for bro
1239	3125	AI231028	General		4.1(S), complete cds
1240	633	Al231127	k		ESTs ESTs, Highly similar to RL2B_H
1241	20846	Al231140	P		60S RIBOSOMAL PROTEIN L2 [R.norvegicus]
1242 1244	6743 26292	AI281219 AI231391	d		ESTs
1244	12343	AI231391 AI231433	k w		ESTs
1246	7337	AI231455	aa		ESTs
1247	16321	Al231506	General		ESTs
1248	8004	AI231532	í.i		ESTs, Highly simitar to Z183_HL ZINC FINGER PROTEIN 183 [H.sapiens]
					ESTs, Moderately similar to BAC family molecular chaperone regu
1249 1250	15171	Al231792 Al231797	9		3 [H.sapiens] ESTs
1252	14227	Al231999			ESTs, Moderately similar to turn
12.52	14221	LIF9 1999	u .		protein D53 [M.musculus] Rattus norvegicus translation
1253	24501	AI232006	w,y,bb		elongation factor 1-delta subunit mRNA, partial cds
1254	3434	AI232014	g,q,z,cc, General		ESTs
					ESTs, Highty similar to Human Translation Initiation Factor Eif1,
1255	19094	AI232021	n.General	1	Pansiation Initiation Factor Eil1, 29 Structures [H.sapiens]

Table 1: 8	UMMARY				Ally, Docket No. 44921-5939 Boc. No. 179339
Sequence	146 H E	GonEants Accel	Model		Contraction of the contraction o
Sequence	2	Ref. Seq ID	Gode	Grano Manaro	
DNo.				SIGNERAL	Unitgeno Cluster Title
1256 1257	14020	AI232076	U		ESTs ESTs
1258	11549	Al232157 Al232174	ld I.m		ESTS
1258	23125	AI232174 AI232266	i,m		ESTS
1259	23125	A1232200	13.5		ESTs, Moderately similar to JC491
1260	2085	AI232270	bb		anti-sigma cross-reacting protein homolog I beta precursor [H.sapien
1261	2913	AI232272			ESTs, Weakly similar to T25417 hypothetical protein T28D6.9 - Caenorhabditis elegans [C.elegans
			1		ESTs, Weakly similar to KIAA0971
1262	14304	AI232281	g		protein [H.sapiens]
		1	u,bb,		
1263	15955	AI232294	General		ESTs
				1	ESTs, Weakly similar to Sid1669p
1264	15122	AI232303	У		[M.musculus]
	1	1	L.	punnergic receptor P2X,	purinergic receptor P2X, ligand-gate
1265	4716	AI232313	ly.	ligand-gated ion channel 4	ion channel 4
1266	15246	AI232332	t,u	Stromal cell-derived factor 1	ESTs
1267	24321	AI232340	0	Stromal cell-denved factor 1	Stromal cell-derived factor 1
					ESTs, Weakly similar to YQ42_CAEEL HYPOTHETICAL 40 KD PROTEIN C13B9.2 IN
1268 1269	16172	AI232341 AI232346	ld h		CHROMOSOME III [C.elegans] [ESTs
1209	11411	A1232340	m	Platelet-derived growth	Platelet-derived growth factor recep
1270	19287	AI232379	1	factor receptor alpha	alpha
1271	5601	Al232461	n,General		ESTs, Weakly similar to FMO1 RAT DIMETHYLANILINE MONOOXYGENASE [R.norvegicus
1272	14051	AI232489	I,m		ESTs, Weakly similar to PIR1 [H.sapiens]
					ESTs, Moderately similar to A27340
1273	5572	Al232490	i,t		complement C7 precursor [H.sapier
1274	11157	Al232494	cc		ESTs
	ľ				ESTs, Weakly similar to DnaJ
1275	8709	AI232534	0		homolog 2 [R.norvegicus]
1276	20350	Al232552	j,v,y		EST
1277	14069	Al232631	0		ESTs
1278	4440	AI232643	w		ESTs ESTs, Weakly similar to putative peroxisomal 2.4-dienovi-CoA
1279	17695	AI232784	0		reductase [R.norvegicus]
1280	15796	AI232874	V		ESTs
1281	12467	Al232924	General		ESTS
1282	12873	AI232984			ESTs
283	5355	Al233031	r		ESTs
1284	18794	AI233121	c .		ESTs, Moderately similar to MHC class I [M.musculus]
1285	3823	Al233147	b.g. General c.k.		ESTs, Weakly similar to nuclear RN helicase [R.norvegicus]
286	11967	AI233155	General		ESTs
287	11561	AI233182	d		ESTS
			F		ESTs, Highly similar to PM1 HUMA
288	3471	AI233183	9		PROTEIN PM [H.sapiens] ESTs, Weakly similar to T15919
					hypothetical protein EEED8.9 -
289	21948	AI233191	h		Caenorhabditis elegans [C.elegans]
	13598	AI233194	g.p.y		ESTs
			94.7		ESTs, Highly similar to Bodenin
291	15552 .	Al233195	у		[M.musculus] Rattus norvegicus epidermal growth
					factor receptor related protein (Emp)
292	17907	AI233224	bb		mRNA, complete cds
	14111		CC		ESTs

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TABLE 1:	SUMMARY				Ady. Doelrot No. 44920-5039
446.	el e	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 2 2		Data No. 17933
Sequence IDINo		GonEmil Acci Roll Scotle	Model Gorio	George Manage	Unigene Gluster Title
	20000000		NA COLUMN		ESTs, Weakly similar to T24956
			1.		hypothetical protein T16G1.10 -
1294	12894	AI233365	d		Caenorhabditis elegans [C.elegans ESTs, Weakly similar to S44853
					K12H4.3 protein - Caenorhabditis
1295	7161	AI233407	General	J	elegans (C.elegans)
1296	15906	AI233425	q		ESTs
1297 1298	14120	AI233433 AI233468	d a,d		ESTs ESTs
1298	14095	A1233468	8,0	<del> </del>	ESTs, Weakly similar to 138079 OX
299	3075	AI233494	u,aa		homolog [H.sapiens]
1300	6046	AI233530	General		ESTs
					PSD8_HUMAN 26S PROTEASOM
1301	18900	AI233570	General		REGULATORY SUBUNIT S14 (H.sapiens)
1301	10500	AIZOSOTO	Ceneral		ESTs, Moderately similar to
	1		1	HHs:arginyl-tRNA	SYR_HUMAN ARGINYL-TRNA
1302	7888	AI233583	General	synthetase	SYNTHETASE [H.sapiens]
1303	16709	AI233602	General	Adenosin kinase	Adenosin kinase
			1		ESTs, Highly similar to P2CD MOUSE PROTEIN
	1				PHOSPHATASE 2C DELTA
	1	l	1		ISOFORM (PP2C-DELTA) (P53-
	1		1		INDUCED PROTEIN PHOSPHATA
					1) (PROTEIN PHOSPHATASE
304	5163	AI233712			MAGNESIUM-DEPENDENT 1 DELTA) [M.musculus]
304	5103	INIZUUI IZ	-	<del> </del>	ESTs, Moderately similar to ERHU
					coatomer complex alpha chain
305	7243	Al233717	General	1	homolog [H.sapiens]
					ESTs, Highly similar to
306	3816	AI233729			PSD5_HUMAN 26S PROTEASOM SUBUNIT S5B [H.sapiens]
1300	13010	AIZJJ/Za	9		ESTs, Weakly similar to ALDR RAT
	1		d,h,	1	ALDOSE REDUCTASE
1307	13023	AI233740	General		[R.norvegicus]
308	14871	AI233743	9		ESTs. Highly similar to Gene produ
	1				with similarity to KIAA0154
309	7469	AI233767	СС		[H.sapiens]
310	7804	Al233771	b		ESTs
					ESTs, Weakly similar to T24413
311	13563	AI233773	l.		hypothetical protein T04A11.2 - Caenorhabditis elegans [C.elegans]
312	2154	AI233818	k,cc		IFSTs
313	16616	Al234079	h		ESTs
			a,d,		
314	13393	Al234100	General	cysteine rich protein	cysteine rich protein
315 316	7071 14677	Al234162 Al234620	r General		ESTs EST
310	14077	A1234020	General		ESTs. Weakly similar to transcription
317	4443	Al234629	m		factor C1 [M.musculus]
318	22453	Al234678	b		ESTs
319	23964	AI234748	t,General		ESTs
320	19581	AI234753	1		EST
321	22152	AI234822	o General	DEXRAS1 (Dexras1)	DEXRAS1 (Dexras1)
	1		.,		ESTs, Weakly similar to S12207
322	18942	AI234865	d		hypothetical protein [M.musculus]
	1			ATPase, H+ transporting,	
323	22662	AI234939	aa .	lysosomal (vacuolar proton pump), subun	ATPase, H+ transporting, lysosoma
323	22002	MIZ-34939	94	punip), Subun	(vacuolar proton pump), subunit 1 ESTs, Highly similar to CB80 HUM/
					80 KDA NUCLEAR CAP BINDING
324	3875	AI235047	o,General		PROTEIN [H.sapiens]
325	19479	AI235135	0		EST

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TABLE 1: SUMMARY Attra Decikot No. 43920-5009000 Dec. No. 1793397 Gordania Accel - Model Santyanas Manufiller Roll Soulis Gode Genne Manne Unifering Chaster Title ESTs, Highly similar to ABF2 HUMAI ATP-BINDING CASSETTE, SUB-FAMILY F. MEMBER 2 (IRON INHIBITED ABC TRANSPORTER 2) 14906 [H.sapiens] ESTs Rattus norvegicus tissue inhibitor o metalloproteinase-1 (TIMP1), mRNA. 15004 AI235224 b,General complete cds 1328 1329 6632 ESTs, Weakly similar to single-pass 1330 14722 AI235284 transmembrane protein [R.norvegicus Rat mRNA for preprocathepsin D (EC 1331 1462 AI235585 3 4 23 51 1332 21061 AJ235631 MAD homolog 4 (Drosophila) ESTs, Moderately similar to pescadillo 1333 14665 AI235646 MAD homolog 4 (Drosophila 19940 AI235689 [H.sapiens] EST: 5698 Al235692 ESTs, Highly similar to NID2 MOUSE NIDOGEN-2 PRECURSOR [M.musculus] ESTs, Moderately similar to A56716 1336 23745 AI235732 aromatic ester hydrolase [H.sapiens] 1337 11164 AI235739 leneral ESTs ESTs, Weakly similar to hypothetica 1338 5212 Al235745 14768 protein (H.sapiens) 1340 ESTS A1236027 Genera ESTS AI236045 ESTs EST 14861 ESTs, Highly similar to E25B protein 1344 16943 AI236097 [M.musculus] ESTs, Highly similar to JC7107 development releted unidentified 27K protein - mouse [M.musculus] 1345 8336 ESTS A1236146 ESTs, Highly similar to JC7301 Dow syndrome critical region protein 5 22855 alpha [H.sapiens] 14594 Al236152 Al236168 1348 ESTs, Highly similar to ATDA MOUSE DIAMINE ACETYLTRANSFERASE General [M.musculus] ESTs, Weakly similar to NHPX RAT NHP2/RS6 FAMILY PROTEIN 1350 15051 AI236332 YEL026W HOMOLOG [R.norvegicus] siah binding protein 1; FBP interacting 1351 19298 AI236338 bb iah binding protein 1; FBP repressor; pyrimidine tract binding interacting repressor. splicing factor: Ro ribonucleoprotein binding protein 1 10667 A1236366 pyrimidine tr 10774 Al236397 9407 AI236402 FST Rattus norvegicus retino dehydrogenase type II mRNA, 26335 AI236460 1355 General complete cds 1356 17950 AI236590 1357 18259 Al236601 h,v ESTs | FSTs, Highly similar to SCF complex 1358 11445 AI236613 17248 A1236635 protein Skp1 [M.musculus]

1360

16859

AI236753

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Table 1: 6	SUMMARY				Affy, Docket No. 44921-5039 Doc. No. 179339
Sequence ID Mo.	Mardifler	GenBenk Ace/ Ref. Sec ID	Model Gode	@angl/Nama	Unigene Cluster 771e
1361	5208	AI236754	9		ESTs, Weakly similar to hT41 [H.sapiens]
1362	24388	AI236772	e,Genera		ESTs
1363	15850	AI236795	n,v,w		[ESTs,ESTs, Highly similar to HS98 RAT HEAT SHOCK PROTEIN HSF 90-BETA [R.norvegicus]
1364	14800	AI236856	w		JESTs
1366	11404	AI237002	m	Ispermidine synthase	spermidine synthase
1367	18151	AI237212	o,Genera		ESTs, Highly similar to hepatitis B virus X interacting protein [H.sapier
1368	21653	AI237535	t,General	estrogen-responsive uterine transcript	estrogen-responsive utenine transc
1369	11208	AI237586	z		ESTs, Moderately similar to INIB R INTERFERON-INDUCIBLE PROTE [R.norvegicus]
1370	21893	AI237713	i,k,aa		ESTs, Moderately similar to Y101_HUMAN HYPOTHETICAL PROTEIN KIAA0101 [H.sapiens]
1371	14842	AI237724	r		ESTs .
1372	3467	AI237835	General		ESTs, Moderately similar to MXI1 F MAX INTERACTING PROTEIN 1 [R.norvegicus]
1373	25840	Al638972	U		
1374	17108	Al639017	n		ESTs, Highly similar to G9A [M.musculus]
1375	16676	AI639082	c,k,x	mini chromosome maintenance deficient 6 (S. cerevisiae)	mini chromosome maintenance deficient 6 (S. cerevisiae)
1376	12400	AI639107	k		ESTs
1377	19952	AI639108	q,v		ESTs
1379	25907	Al639167	0,W		ESTs
1381	18533	AI639231	n		ESTs, Highly similar to T46480 hypothetical protein DKFZp434L1850.1 [H.sapiens]
1382	18353	AI639233	t,aa	decorin	decorin
1384	15330	AI639285	General		ESTs
1385	20026	AI639354	9		EST
1386	25971	Al639365	u.General		
1388	19152	AI639387	u,General		ESTs ESTs, Moderately similar to CAQC RAT CALSEQUESTRIN, CARDIAC
1390	18338	A1639422	y		MUSCLE ISOFORM PRECURSOR [R.norvegicus]
1392	20082	AI639488	i,m		EST, Highly similar to A42772 mdm protein - rat [R.norvegicus]
			a,bb.		ESTs, Weakly similar to T13607 hypothetical protein EG:87B1.3 • fru
1394	20056	A1639504	General		fly [D.melanogaster] ESTs, Highly similar to RPB8_HUMAN DNA-DIRECTED RI
1395	4713	AI639518	9		POLYMERASES I, II, AND III 17.1 I POLYPEPTIDE [H.sapiens]
				protein phosphatase 1, regulatory (inhibitor) subunit	protein phosphatase 1, regulatory
1396	14332	AJ001044	bb	5	(inhibitor) subunit 5
1397	7602	AJ001929	k	reticulocalbin	reticulocalbin Rattus norvegicus mRNA for
1398	9867	AJ005424	Įu .		BMK1/ERK5 protein, partial
1400	20116	AJ011811 AJ011969	General I.General	claudin 7 growth differentiation factor 15	claudin 7 growth differentiation factor 15
1402	17635	AJ223355	v,w		Rattus norvegicus mRNA for mitochondrial dicarboxylate carrier
704	111033	4meres 2000	( v , vv		mmouroriuliai ulcarvuxyiatë Cafflet

TABLE O: S	UMMARY		100	a marin the same graph of	" Ally: Doctor No. 44920-500000
- 3 m	9.00			1 8 1 8 7 8 8	Doc. No. 1799397
Sequence	186	GenBank Acel	Worden.	· · · · · · · · · · · · · · · · · · ·	The first short with more
ID No.	Order Miller	Ref. Sec ID	Code	Gama Manina	Unicana Cluster Ville
			-		Rat mRNA for delta3, delta2-encyl-
			1	dodecenoyl-Coenzyme A	CoA isomerase,dodecenoyl-
1403	18686	D00729		delta isomerase (3,2 trans-	Coenzyme A delta isomerase (3,2
1403	10000	1000729	19-	enoyl-Coenyme A dihydrolipoamide	trans-enoyl-Coenyme A isomerase)
1404	5049	D10655	n,w	acetyltransferase	dihydrolipoamide acetyltransferase
1405	25257	D13623	į.		
1405 1406	15281	D13623	h		ESTs ESTs
1400	11434	D14014	100	·	Rat mRNA for testicular dynamin,
1407	1613	D14076	x		complete cds
				HHs:hydroxyacyl-Coenzyme	
			1	A dehydrogenase/3-ketoacyl- Coenzyme A thiolase/enoyl-	Dat Chia for it t de it
			1	Coenzyme A thiolase/endyl-	Rat mRNA for mitochondrial long- chain 3-ketoacyl-CoA thiolase beta-
	1		1	(trifunctional protein), beta	subunit of mitochondrial trifunctional
1408	1728	D16479	q	subunit	protein, complete dds
			1		Rat mRNA for polyubiquitin (four
1409	3015	D16554	c,s,v,z		repetitive ubiquitins in tandem), complete cds
			T		R.norvegicus mRNA for chloride
1410	472	D26111	d,s,bb		channel (putative) 2313bp
		1	1	1	
1412	16233	D29960	lu		Rattus norvegicus mRNA for alphaB crystallin-related protein, complete cd
	10200	020000	15.		ESTs, Highly similar to PRC6 RAT
			1	1	PROTEASOME SUBUNIT RC6-1
1413	9029	D30804	n		[R.norvegicus]
		1			Rattus norvegicus tyrosine phosphatase-like protein IA-2a mRNA
1414	1485	D38222	y.z		partial cds
					ESTs, Highly similar to PRCE RAT
				proteasome beta type	PROTEASOME EPSILON CHAIN
1415	9135	D45247	S	subunit 5	PRECURSOR [R.norvegicus] Rattus norvegicus mRNA for
				HHs:mercaptopyruvate	mercaptopyruvete sulfurtransferase,
1416	16354	D50564	U		complete cds
					Rattus norvegicus mRNA for
1417	1884	D50695	l,m,bb		proteasomal ATPase (Tat-binding
141/	1004	000000	1,/11,00	Solute carrier family 1 A1	protein7), complete cds Solute carrier family 1 A1 (brain
1418	21147 .	D63772	General	(brain glutamate transporter)	glutamate transporter)
				HHs:CDP-diacylglycerol	
			l	inositol 3-	
			1	phosphatidyltransferase (phosphatidylinositol	Rat mRNA for phosphatidylinositol
1419	826	D82928	ſ		synthase, complete cds
	25306	D84485	u		
1421	40007	000000			Rattus norvegicus mRNA for serine
1421	18867	D88250	r.v.		protease, complete cds
1423	22543	H31117	General		
424	12360	H31456	w		ESTs
425	20514	H31489	h.j		ESTs
400	11358	N34640			ESTs, Highly similar to mtprd
1426	11358	H31610	h		[M.musculus] ESTs, Moderately similar to T14781
			bb.		hypothetical protein
427	4360	H31813	General	J	DKFZp586B1621.1 [H.sapiens]
				1 1	ESTs, Moderately similar to COF1
428	9343	H22460		1 1	RAT COFILIN, NON-MUSCLE
		H32169 H33093	h.w		SOFORM [R.norvegicus]
	4415				ESTs

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				-92-	
	SUMMARY				Atty. Docket No. 44921-5099 Doc. No. 17939
Sequence		GenBenk Ace	Model		Total A
III) KO	tecontiller	331.8391D	©ode	Gance Namo	Uningene Cluster Title  ESTs, Highly similar to IF39 HUMA
					EUKARYOTIC TRANSLATION INITIATION FACTOR 3 SUBUNITS
1431	15374	H34186	<del> </del>		[H.sapiens]
1432	17159	J00797	u,Genera	l alpha-tubulin	alpha-tubulin
1433	16260	J01878	r		Rat brain-specific identifier sequence RNA, clone p1b224
	1.540.1	1	1	Branched chain alpha-	
1434	17284	J02827	bb	ketoacid dehydrogenase subunit E1 alpha	Branched chain alpha-ketoacid dehydrogenase subunit E1 alpha
				TOWNS L I OINIO	Rat glutathione S-transferase mRN
1435	15017	J03752	n		complete cds
			1	Thyroid hormone receptor, beta (avian erythroblastic	Thyroid hormone receptor, beta (av
			1	leukemia viral (v-erb-a)	erythroblastic leukemia viral (v-erb-
1436	44	J03819	p,s	oncogene homolog 2)	oncogene homolog 2)
1437	21014	J03914	e,r, General	Glutathione-S-transferase, mu type 2 (Yb2)	Glutathione-S-transferase, mu type (Yb2)
	T'	1	1	Steroid-5-alpha-reductase,	1
			1	alpha polypeptide 1 (3-oxo-5 alpha-steroid delta 4-	
1438	20429	J05035	ı	dehydrogenase alpha 1)	polypeptide 1 (3-oxo-5 alpha-steroic delta 4-dehydrogenase alpha 1)
				Glutamylcysteine gamma	Glutamylcysteine gamma synthetas
1439	1247	J05181	j.l,m,s,y,z	synthetase light chain Inositol 1,4,5-triphosphate	light chain Rat inositol-1.4.5-triphosphate
1440	10464	J05510	General	receptor type 1	receptor mRNA, complete cds
1441	20149	K03243	9		
					Rat peroxisomal encyl-CoA: hydrotase-3-hydroxyacyl-CoA bifunctional enzyme mRNA, comple
1442	17758 381	K03249 L00124	q w	Elastase 2, pancreatic	cds Elastase 2, pancreatic
1444	2048	L00382	k,x	Liastase z, paricieatic	Lastase 2, partireauc
1445	10500	L04619	s		
1447	108	L14002			Rattus norvegicus clone 15 polymer immunoglobulin receptor mRNA, 3'UTR microsatellite repeats
1448	25366	L14003	i		
1449	109	L14004	с,р		Rattus norvegicus clone 15 polymer immunoglobulin receptor mRNA, 3'UTR microsatellite repeats
1450	20414	L14323	General	Phospholipase C-beta1	Phospholipase C-beta1
1451	25369	L14937	у	2'.3'- Cyclic nucleolide 3'-	2'.3'- Cyclic nucleotide 3'-
1452	16119	L16532	k	phosphodiesterase	phosphodiesterase
1453	25377	L25387	h		
1453	12058	L25387	h	Solute carrier family 1 A1	ESTs, Highly similar to A53047 6- phosphofructokinase [R.norvegicus] Solute carrier family 1 A1 (brain
1455	21146	L35558	General	(brain glutamate transporter)	glutamate transporter) Rattus norvegicus quanvivi cyclase
1456	106	L37203	w		(GC-D) mRNA, complete cds Rattus norvegicus serine protease
1458	13682	L38482	f.j.k.m.z		gene, complete cds
1459 1461	15189	L38615 M11794	p n,v	Glutathione synthetase gene.	Glutathione synthetase gene
1462	17086	M13011	li.v		Rat c-ras-H-1 gene, complete cds
					Rat insulin-like growth factor-I mRNA
1464	21053 25405	M15481 M18330	0		3' end
1466	25405	M19648	1).l		
1488	14967	M22366	w		
1469	20481	M22631	hh	Propionyl Coenzyme A carboxylase, alpha polypeptide	

FRANKLE (12 S	SUMMARRY:	THE PERSON NAMED IN COLUMN 1	£.	5' 40'	After, Docket No. 44921-5039V
					Dec. No. 179339
Starpered ID-v6	The water	GentBank Acel	Model		35 Saysk
ID VG	normanion.	Rof SociD	ලගණ	Cono Namo	Unitering Cluster Title
Strain County	- Augustinia	Actor excepted	COGC	HHs:ubiquinol-cytochrome c	Congonic etters into
-			1	reductase, Rieske iron-sulfur	Rat Rieske iron-sulfur protein mRN/
1471	15048	M24542	9	polypeptide 1	complete cds
			1		Rat cytochrome P-450 isozyme 5
1472	20921	M29853	m	Cytochrome P450, an	(P450 IVB2) mRNA, complete cds
				olfactory-specific steroid	Cytochrome P450, an olfactory-
1473	1224	M31931	lu lu	hydroxylase	specific steroid hydroxylase
					Rat mitochondrial 3-hydroxy-3-
			1		methylglutaryl-CoA synthase mRNA
1474	15579	M33648	9		complete cds Rat mitochondrial 3-hydroxy-3-
	1		1	1	methylgiutaryl-CoA synthase mRNA
1474	15580	M33648	9		complete cds
					ESTs, Weakly similar to KRAB-zinc
1475	17211	M34331 M35601	g,n,q,v b,x,bb		finger protein KZF-1 [R norvegicus] Rat alpha-fibringen mRNA, 3' end
1476	20700	M35601	b.t.bb		Rat alpha-fibrinogen mRNA, 3' end
1110	20,00		10,000		Rat mRNA for MHC class II antigen
	1				RT1.B-1 beta-chain,Rattus norvegic
	l			i	MHC class II antigen RT1.B beta
1477	9223	M36151	0		chain mRNA, partial cds Rat general mitochondrial matrix
		1	ł	1	processing protease (MPP) mRNA.
1479	1585	M57728	j,m,y		end
1480	24844	M58040	c	transferrin receptor	transferrin receptor
1481	25057	M58495	h		
1482	457	M60666	d.General	Tropomyosin 1 (alpha)	Tropomyosin 1 (alpha)
					Rat cystatin S (CysS) gene, complet
1483	1223	M75281	f		cds
1484	5733	MB1855	i,k,aa	P-glycoprotein/multidrug resistance 1	P-glycoprotein/multidrug resistance
1404	13733	IW01000	1,0,00	resistance i	Rat beta-galactoside-alpha 2,6-
1485	4198	M83143	m		sialyltransferase mRNA
					Rat beta-galactoside-alpha 2,6-
1485	4199	M83143	m	01014	sialyltransferase mRNA
1486	24651	M83678	k,x,z	RAB13 Dopa decarboxylase	RAB13
			1	(aromatic L-amino acid	Dopa decarboxylase (aromatic L-
1487	1430	M84648	General	decarboxylase)	amino acid decarboxylase)
1488	25467	M93297	С	omithine aminotransferase	ornithine aminotransferase
1489	729	M95762	a,y		Rattus norvegicus GABA transporter GAT-2 mRNA, complete cds
1403	120	W93702	0.7	Rattus norvegicus Acetyl-	OX 1-2 IIIX IVA, complete cus
				CoA acyltransferase, 3-oxo	
				acyl-CoA thiolase A,	
1490	23698	NM_012489	a .	peroxisomal (Acaa), mRNA. Length = 1619	Acetyl-CoA acytransferase, 3-oxo acyl-CoA thiolase A, peroxisomal
1430	123030	14M_012409	Ч	Rattus norvegicus Acetyl-	acyr-cox tiliolase A, peroxisolilai
				CoA acyltransferase, 3-oxo	
				acyl-CoA thiolase A,	
4400	23699	040400			Acetyl-CoA acyltransferase, 3-oxo
1490	123699	NM_012489	9	Length = 1619 Rattus norvegicus Aldolase	acyl-CoA thiolase A, peroxisomal
	1			A, fructose-bisphosphate	
				(Aldoa), mRNA. Length =	
1491	7062	NM_012495	q	1442	Aldolase A, fructose-bisphosphate
	1		1	Rattus norvegicus Aldehyde reductase 1 (low Km aldose	
	1			reductase) (5.8 kb Pstl	
	1			fragment, probably the	Aldehyde reductase 1 (low Km aldose
	1			functional gene) (Akr1b1),	reductase) (5.8 kb Pstl fragment,
1492	15511	NM 012498		mRNA. Length = 1339	probably the functional gene)

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TABLE (: 6	BUMMARY		-	7.62	Athy. Dooket No. 44921-503900 Dos. No. 1793397.
Saguando ID No	identifier	GorBank Acci Ref (Seq.ID)	Model Code	Gono Namo	July - Gluster Villo
1494	7427	NM_012515	General	Rattus norvegicus Benzodiazepin receptor (peripheral) (Bzrp), mRNA. Length = 781	Benzodiazepin receptor (peripherel)
				Rattus norvegicus Cholinergic receptor, muscarinic 3 (Chrm3),	
1495	24433	NM_012527	1	mRNA. Length = 3578 Rattus norvegicus Creatine kinase, brain (Ckb), mRNA.	Cholinergic receptor, muscarinic 3
1496	4467	NM_012529	d	Length = 1146 Rattus norvegicus	Creatine kinase, brain
1497	16520	NM_012532	General	Ceruloplasmin (ferroxidase) (Cp), mRNA. Length = 3700 Rattus norvegicus	Ceruloplasmin (ferroxidase)
1498	225	NM 012544	X.2	Angiotensin I-converting enzyme (Dipeptidyl carboxypeptidase 1) (Ace), mRNA. Length = 4142	Dipeptidyl carboxypeptidase 1 (Angiotensin I-converting enzyme)
1450	225	1400_012544		Rattus norvegicus Dopa decarboxylase (aromatic L-	
1499	1431	NM_012545	General	amino acid decarboxylase) (Ddc), mRNA. Length = 1954 Rattus norvegicus Early	Dopa decarboxylase (aromatic L- amino acid decarboxylase)
1500	23868	NM_012551	I,m,v, General	growth response 1 (Egr1), mRNA. Length = 3112	Early growth response 1
1500	23872	NM_012551	I,v,cc, General	Rattus norvegicus Early growth response 1 (Egr1), mRNA. Length = 3112	Early growth response 1
1500	23869	NM_012551	v,General	Rattus norvegicus Early growth response 1 (Egr1), mRNA. Length = 3112	Early growth response 1
1501	19407	NM_012554	z	Rattus norvegicus Enolase 1, alpha (Eno1), mRNA. Length = 1725	Enolase 1, alpha
1501	19408	NM_012554		Rattus norvegicus Enolase 1, alpha (Eno1), mRNA. Length = 1725	Enolase 1, aipha
				Rattus norvegicus Ets avian erythroblastosis virus E2 oncogene homolog 1 (tumor progression locus 1) (Ets1),	Ets avien erythroblastosis virus E2 oncogene homolog 1 (tumor
1502	21836	NM_012555	k	mRNA. Length = 4991 Rattus norvegicus Fructose-	progression locus 1)
1503	16895	NM_012558	g,s	1,6- biphosphatase (Fbp1), mRNA. Length = 1357 Rattus norvegicus	Fructose-1,6- biphosphatase
				Fibrinogen, gamma polypeptide (Fgg), mRNA.	
1504	25317	NM_012559	1	Length = 1358 Rattus norvegicus Fibrinogen, gamma	
1504	6477	NM_012559	b,bb	polypeptide (Fgg), mRNA. Length = 1358 Rattus norvegicus	Fibrinogen, gamma polypeplide
1504	6478	NM 012559		Fibrinogen, gamma polypeptide (Fgg), mRNA. Length = 1358	Fibrinogen, gamma polypeptide
	11731			Rattus norvegicus Follistatin	Follistatin
	11/01	012361		Rattus norvegicus Group- specific component (vitamin	
1507	4254	NM_012564		D-binding protein) (Gc), mRNA. Length = 1676	Group-specific component (vitamin D- binding protein)

VABUE 12: E	SUMMARY				Afry, Docket No. 44921-3989 Doc. No. 179389
Seguence ID No.	Month for	GenBank Act/ Rall Group (D)	Model Godo	Gene Name	Unigen Givstor Tille
1508	16026	NM 012578	,	Rattus norvegicus Histone H1-0 (H1f0), mRNA. Length = 1779	Histone H1-0
1508	16024	NM 012578	,	Rattus norvegicus Histone H1-0 (H1f0), mRNA. Length = 1779	Histone H1-0
1508	16025	NM 012578	,	Rattus norvegicus Histone H1-0 (H1f0), mRNA. Length = 1779	Histone H1-0
1509	16080	NM_012580	g,m	Rattus norvegicus Heme oxygenase (Hmox1), mRNA. Length = 870	Heme oxygenase
				Rattus norvegicus Insulin- like growth factor-binding protein (IGF-BP3) (Igfbp3),	Insulin-like growth factor-binding
1510	15098	NM_012588	bb .	mRNA. Length = 2352 Rattus norvegicus Isovaleryl	protein (IGF-BP3)
1511 .	4450	NM_012592	bb	Coenzyme A dehydrogenase (ivd), mRNA. Length = 2104	isovaleryi Coenzyme A
1511	4451	NM_012592	i,bb	Rattus norvegicus Isovaleryl Coenzyme A dehydrogenase (Ivd), mRNA. Length = 2104	
1511			bb	Rattus norvegicus Isovaleryl Coenzyme A dehydrogenase	Isovaleryl Coenzyme A
	4452	NM_012592		(Ivd), mRNA. Length = 2104 Rattus norvegicus Kallikrein 1, renal/pancreas/salivary	
1512	17198	NM_012593	a,x	Rattus norvegicus Kallikrein 1, renal/pancreas/salivary	Kallikrein 1, renal/pancreas/salivary
1512	17197	NM_012593	x .	(Kik1), mRNA, Length = 786 Rattus norvegicus Malic enzyme 1, soluble (Me1),	Kallikrein 1, renal/pancreas/salivery
1513	18749	NM_012600	a,h	mRNA. Length = 1761 Rattus norvegicus Avian	Malic enzyme 1, soluble
1514	2628	NM_012603	General	myelocytomatosis viral (v- myc) oncogene homolog (Myc), mRNA. Length = 2168	Avian myelocytomatosis viral (v-my oncogene homolog
				Rattus norvegicus Avian myelocytomatosis viral (v-	
1514	2629	NM_012603	x,General	myc) oncogene homolog (Myc), mRNA. Length = 2168 Rattus norvegicus	Avian myelocytomatosis viral (v-my oncogene homolog
				Membrane metallo- endopeptidase (neutral endopeptidase/enkephalinas e) (Mme), mRNA, Length =	Membrane metallo-endopeptidase
1515	16849	NM_012608	n,o,q	3243 Rattus norvegicus serine (or	endopeptidase/enkephalinase)
				cysteine) proteinase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 1	
517	15540	NM_012620	General	(Serpine1), mRNA. Length = 3053 Rattus norvegicus Prolactin	Plasminogen activator inhibitor
518	24568	NM_012630	General	receptor (Prir), mRNA. Length = 1635 Rattus norvegicus Prolactin	Prolactin receptor
518	24566 .	NM_012630	General	receptor (Prir), mRNA.	Prolactin receptor

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TABLE (*	SUMMARY			- 10 P   4 P P	Alfy, Docket No. 41221-5030V Doc. No. 179337
Segrance ID No	lideratifier	Gon Bands (Assa) ( Red L Scople)	Modal Code	Genre Marino	(Trigono Cluster Villo
1519	18553	NM_012631	k	Rattus norvegicus Prion protein, structural (Pmp), mRNA. Length = 765 Rattus norvegicus protein	Prion protein, structural
1520	1844	NM_012637	General	tyrosine phosphatase, non- receptor type 1 (Ptpn1), mRNA. Length = 4127	ESTs,Protein-tyrosine phosphatase
1521	24668	NM_012642	1	Rattus norvegicus Renin (Ren), mRNA. Length = 1059	
1522	18632	NM_012645	а	Rattus norvegicus RT1 class lb gene (RT1Aw2), mRNA. Length = 1540	RT1 class ib gene
1523	25435	NM 012647	g	Rattus norvegicus Sodium channel, voltage-gated, type II, alpha polypeptide (Scn2a1), mRNA. Length = 8553	
1524	9423	NM 012649	b,cc	Rattus norvegicus Ryudocan/syndecan 4 (Sdc4), mRNA. Length = 2462	Ryudocan/syndecan 4
1525	24496	NM 012654		Rattus norvegicus Solute carrier family 9 (sodium/hydrogen exchanger 3), antiporter 3, Na+/H+ (amiloride Insensitive) (Slc9a3), mRNA. Length = 5153	
1526	7101	NM 012679	x,bb, General	Rattus norvegicus Clusterin (Clu), mRNA, Length = 1638	Testostrone-repressed prostate
1527	24707	NM_012693		Rattus norvegicus Cytochrome P450 IIA2 (Cyp2a2), mRNA. Length = 2259	Cytochrome P450 IIA2
				Rattus norvegicus T- kininogen, see also D11Elh1 and D11Mit8 (Kng), mRNA.	
1528	1850	NM_012696		Length = 1417 Rattus norvegicus T- kininogen, see also D11Elh1 and D11Mit8 (Kng), mRNA.	T-kininogen  K-kininogen, differential splicing lead
1528	1854	NM_012696		Length = 1417  Rattus norvegicus Organic cation transporter (Sic22a1),	to HMW Kngk,T-kininogen
1529	1603	NM_012697	General	mRNA. Length = 1882 Rattus norvegicus Hexokinase 1 (Hk1), mRNA.	Organic cation transporter
1530	1372	NM_012734	u .	Length = 3653 Rattus norvegicus Pyruvate	Hexokinase 1
1531	1478	NM_012744	General	carboxylase (Pc), mRNA. Length = 3945 Rattus norvegicus Signal	Pyruvate carboxylase
1532	343	NM_012747		transducer and activator of transcription 3 (Stat3), mRNA. Length = 2924	Signal transducer and activator of transcription 3
1533	8829	NM_012749		Rattus norvegicus CD24	Nucleolin
1534	20828	NM_012752	General	antigen (Cd24), mRNA. Length = 1703 Rattus norvegicus CD24	CD24 antigen
1534	20829	NM_012752		antigen (Cd24), mRNA.	CD24 antigen

TABLE 1:	SUMMARY			30	Ally, Docket No. 42929-50 Doc. No. 179
Sequences ID No.	Hentifler	GerBank Acel Rof. Seq ID	Model Godo	Gerro Manno	Justine Shena The
1534	20830	NM_012752	i,General	Rattus norvegicus CD24 antigen (Cd24), mRNA. Length = 1703	CD24 antigen
1535	15174	NM 012756	Ь	Rattus norvegicus Insulin- like growth factor 2 receptor (Igf2r), mRNA. Length = 8810	Insulin-like growth factor 2 recep
1536	21685	NM_012760	j,m,n	Rattus norvegicus Lost on trensformation 1 (Lot1), mRNA. Length = 5028 Rattus norvegicus Interleukir	Lost on transformation 1
1537	18068	NM_012762	ı	1bela converting enzyme (Casp1), mRNA. Length = 1209	Interleukin 1bela converting enz
				Rattus norvegicus Guanylate cyclase, soluble, beta 2 (GTP pyrophosphate - lyase) (Gucy1b2), mRNA. Length =	
1538	1246	NM_012770	a,General	2335 Rattus norvegicus	(GTP pyrophosphate - lyase)
1539	1348	NM_012776	,	adrenergic receptor kinase, beta 1 (Adrbk1), mRNA. Length = 2683	G-protein-linked receptor kinase adrenergic receptor kinase 1)
1540	18135	NM 012791		Rattus norvegicus dual- specificity tyrosine-(Y)- phosphorylation regulated kinase 1a (Dyrk1a), mRNA. Length = 2840	Dual Specificity Yak1-related kinase ESTs
1541	16947	NM 012793	p,bb	Rattus norvegicus Guanidinoacetate methyltransferase (Gamt), mRNA. Length = 924	Guanidinoacetate methyltransfer
1341	10947	NM_012793	p,00	Rattus norvegicus glutathione S-transferase, theta 2 (Gstt2), mRNA.	Guandinoacetate metnyttransfer
1542	960	NM_012796	u	Length = 1258 Rattus norvegicus MAL	glutathione S-transferase, theta
1543	260	NM_012798	f,u ·	protein gene (Mai), mRNA. Length = 2268 Rattus norvegicus Protein C	MAL protein gene
1544	556	NM_012803	d	(Proc), mRNA. Length = 1543	Protein C
1545	21729	NM_012804	9	Rattus norvegicus ATP- binding cassette, sub-family D (ALD), member 3 (Abcd3), mRNA. Length = 3324	ATP-binding cassette, sub-family (ALD), member 3
				Rattus norvegicus alpha- methylacyl-CoA racemase (Amacr), mRNA. Length =	
1546	15032	NM_012816		1504 Rattus norvegicus Insulin- like growth factor-binding	Methylacyl-CoA racemase alpha
1547	24895	NM_012817	General	protein 5 (Igfbp5), mRNA. Length = 1630	Insulin-like growth factor-binding protein 5
1548	18109	NM_012823	u,General	1454	ESTs, Weakly similar to LURT3 annexin III - rat [R.norvegicus]
1549	373	NM 012833	h,i,q,		Canalicular multispecific organic a
1550	2855	012303		Rattus norvegicus Cystatin beta (Cstb), mRNA. Length = 590	- unaponus

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PARTURAL RUMANAN TOTAL PROPERTY. Affin, Dooket No. 44921-5039.00 Dos. No. 1793397. GonBank Accid | Model Red Secrific | Gode രണ്ടുത io (No. | Identifier | Ref. Seq.10) Como Namo Uniform Cluster Title Rattus norvegicus Cytochrome C, expressed in Cytochrome C, expressed in somatic somatic tissues (Cycs), 1551 11136 NM 012839 nRNA. Length = 318 issues Rattus norvegicu growth factor (Egf), mRNA. 1552 20885 NM\_012842 Length = 4801 pidermal growth factor Rattus norvegicus Epiderma growth factor (Egf), mRNA. 1552 20884 NM 012842 a.bb Length = 4801 Epidermal growth factor Rattus norvegicus Lysosomal associated membrane protein 1 (120 kDa) (Lamp1), mRNA Lysosomal associated membrane 1553 18770 NM 012857 Length = 2006 protein 1 (120 kDa) ESTs, Weakly similar to S21348 Rattus norvegicus O6methylguanine-DNA probable pol polyprotein-related methyltranferase (Mgmt), protein 4 - rat [R.norveglcus],O6-1554 20674 mRNA. Length = 812 NM 012861 methylguanine-DNA methyltranferase Rattus norvegicus Matrix Gla protein (Map), mRNA. General 1555 13151 NM 012862 Length = 521 Matrix Gla protein Rattus norvegicus tumoi necrosis factor receptor superfamily, member 11b (osteoprotegerin) (Tnfrsf11b), mRNA. Length 1556 NM 012870 24617 2432 Osteoprotegerin Ribosomal protein L39 (Rpl39), mRNA, Length = 1557 20945 NM 012875 Ribosomal protein L39 Rattus norveoicus Solute carrier family 2 A2 (gkucos transporter, type 2) (Slc2a2), Solute carrier family 2 A2 (gkucose 1558 15872 NM 012879 mRNA. Length = 2573 transporter, type 2) Rattus norvegicus Superoxide dismutase 3 (Sod3), mRNA. Length = 1559 495 NM 012880 1720 Superoxide dimutase 3 Rattus norvegicus Superoxide dismutase 3 (Sod3), mRNA, Length = 1559 NM 012880 1729 Superoxide dimutase 3 Sialoprotein (osteopontin) (Spp1), mRNA. Length = d,u, 1457 Sialoprotein (osteopontin) EST, Moderately similar to ACDV RAT 1560 23651 NM 012881 Coneral Rattus norvegicus Acyl-Coa ACYL-COA DEHYDROGENASE. dehydrogenase, Very long chain (Acadvl), mRNA. VERY-LONG-CHAIN SPECIFIC MITOCHONDRIAL PRECURSOR 1562 19477 NM\_012891 Length = 2117 [R.norvegicus] aminolevulinate.delta-Delta - aminolevulinic acid dehydratase (Alad), mRNA 1563 18564 NM\_012899 Length = 1116 dehydratase Rattus norvegicus Annexin (p35) (Lipocortin 1) (Anxa1), 1564 7197 NM 012904 mRNA. Length = 1402 Annexin 1 (p35) (Lipocortin 1) Rattus norvegicus Annexin (p35) (Lipocortin 1) (Anxa1), v.cc 1564 7196 General mRNA. Length = 1402 NM\_012904 Annexin 1 (p35) (Lipocortin 1) Rattus norvegicus Aquaponi 2 (Aqp2), mRNA. Length = 1565 20202 NM 012909 Aquaporin 2

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TABLE 1	SUMMARY			0.2	Ary, Dockel No. 44921-2039WC
		GonBank Acel	L.		Dos. No. 179889/.1
Seguenc 10 No.		Ref. Sec ID	Code	Gono Nemo	Unigana Cluster Titto
	TO CHILDS	San Carrier Control	2000	Rattus norvegicus Arrestin,	Consolid Cite Asia (Miles
1566	18581	NM_012911	c.j	beta 2 (Arrb2), mRNA. Length = 1758	Arrestin, beta 2
1566	16582	NM 012911	c	Rattus norvegicus Arrestin, beta 2 (Arrb2), mRNA. Length = 1758	Arrestin, beta 2
				Rattus norvegicus Activating	
1587		040040	General	transcription factor 3 (Atf3),	
156/	24431	NM_012912	General	mRNA. Length = 1893 Rattus norvegicus ATPase,	Activating transcription factor 3
			1	Na+K+ transporting, beta	
	l	1		polypeptide 3 (Atp1b3).	ATPase, Na+K+ transporting, beta
1568	18118	NM_012913	P	mRNA. Length = 1818 Rattus norvegicus ATPase	polypeptide 3
			1	inhibitor (rat mitochondrial	
		1	1	IF1 protein) (Atpi), mRNA.	ATPase inhibitor (rat mitochondrial IF1
1569	6108	NM_012915	n	Length = 833	protein)
				Rattus norvegicus Cyclin G1 (Ccng1), mRNA. Length =	1
1570	20757	NM_012923	c,i,aa	3169	Cyclin G1
				Rattus norvegicus Cyclin G1	
1570	20755	NM 012923	l.	(Ccng1), mRNA. Length = 3169	Cyclin G1
13/0	20/33	14M_012923	<del> </del>	Rattus norvegicus CD59	Cyalifer
	1		l.	antigen (Cd59), mRNA.	
1571	2830	NM_012925	f	Length = 1523 Rattus norvegicus CD59	CD59 antigen
	1		1	antigen (Cd59), mRNA.	
1571	2831	NM_012925	f	Length = 1523	CD59 antigen
				Rattus norvegicus Camitine	
	1		1	palmitoyltransferase 2 (Cpt2), mRNA. Length =	1
572	1977	NM_012930	q	2296	Carnitine palmiloyltransferase 2
		1		Rattus norvegicus v-crk- associated tyrosine kinase	
			1	substrate (Crkas), mRNA.	v-crk-associated tyrosine kinase
573	18694	NM_012931	j,l,m,z	Length = 3335	substrate
				Rattus norvegicus Crystallin,	
1574	13723	NM_012935	0	alpha polypeptide 2 (Cryab), mRNA. Length = 528	Crystallin, alpha polypeptide 2;ESTs
	13123	11W_012933	<u> </u>	Rattus norvegicus Cathepsin	отуванит, върга рогурериое 2,5318
	1	I		H (Ctsh), mRNA. Length =	
1575	9109	NM_012939	j.y.z	1362 Rattus norvegicus Catheosin	Cathepsin H
			1	H (Ctsh), mRNA. Length =	
575	19398	NM_012939 .	aa	1362	EST
			l -	Rattus norvegicus Diphtheria	
				toxin receptor(heparin binding epidermal growth	Diphtheria toxin receptor (heparin
	1		Ι.	factor - like growth factor)	binding epidermal growth factor - like
576	223	NM_012945	b,cc	(Dtr), mRNA. Length = 1550	growth factor)
				Rattus norvegicus Thrombin receptor (F2r), mRNA.	
577	15058	NM 012950	cc :	Length = 3418	Thrombin receptor
				Rattus norvegicus High	
579	19111	NIM 012062	L	mobility group 1 (Hmg1),	History and Maria
218	19111	NM_012963	9	mRNA. Length = 1225 Rattus norvegicus	High mobility group 1
				Hyaluronan mediated motility	
		l i			Hyaluronan mediated motility receptor
580	19374	NM_012964	X	mRNA. Length = 2049 Rattus norvegicus	(RHAMM)
				Intercellular adhesion	
				molecule 1 (Icam1), mRNA.	
581	2554	NM_012967	t .	Length = 2602	Intercellular adhesion molecule 1

VARUE 1: 8	SUMMARY				Atty, Docket No. 43924-53570 Dos. No. 179333
Secuence 10 No.	lidentiffer	Gor Brids Area Ref. Scop.lo	Model	Gamo Namo	Uniform Cluster Willo
1581	2555	NM_012967	t,cc, General	Rattus norvegicus Intercellular adhesion molecule 1 (Icam1), mRNA. Length = 2602	Intercellular adhesion molecule 1
1582	24528	NM_012973	c	Rattus norvegicus Potassium (K+) channel protein, slowly activating (Isk) (Kcne1), mRNA. Length = 585	Potassium (K+) channel protein, slowly activating (Isk)
1583	956	NM_012976	c	Rattus norvegicus Lectin, galactose binding, soluble 5 (Galectin-5) (Lgals5), mRNA Length = 872	Lectin, galactose binding, soluble 9 (Galectin-9)
				Rattus norvegicus Nucleoprotein 50kD (Nup50)	
1584	16417	NM_012991	9	mRNA. Length = 3027	Nuclear pore associated protein
1585	17393	NM_012992	d .	Rattus norvegicus Nucleoplasmin-related protein (Nuclear protein B23 (Npm1), mRNA. Length = 1232	Nucleoplasmin-related protein (Nuclear protein B23
				Rattus norvegicus Prosaposin (sulfated glycoprotein, sphingolipid hydrolase activator) (Psap),	Prosaposin (sulfated glycoprotein,
1586	23544	NM_013013	8	mRNA. Length = 2175 Rattus norvegicus Syndecan	sphingolipid hydrolase activator)
			1	1 (Sdc1), mRNA. Length =	
1587	1588	NM_013026	k	2410	Syndecan 1
1588	17894	NM 013027	m	Rattus norvegicus Selenoprotein W muscle 1 (Sepw1), mRNA. Length = 664	Selenoprotein W muscle 1
1589	18300	NM 013030	s,v, General	Rattus norvegicus Solute carrier family 17 (sodium/hydrogen exchanger), member 2 (Slc34a1), mRNA. Length = 2440	Rattus norvegicus mRNA for NaPi-2
				Rattus norvegicus Solute carrier family 17 (sodium/hydrogen exchanger), member 2 (Sic34a1), mRNA. Length =	Solute carrier family 17 (sodium/hydrogen exchanger),
1589	18076	NM_013030	g.s.z	2440 Rattus norvegicus Solute carrier family 17 (sodium/hydrogen exchanger), member 2	member 2  Rattus norvegicus mRNA for NaPi-2 alpha, complete cds, Solute carrier
1589	18078	NM_013030	s	(Sic34a1), mRNA. Length = 2440	family 17 (sodium/hydrogen exchanger), member 2
1589	18077	NM 013030	e,s,z	Rattus norvegicus Solute carrier family 17 (sodium/hydrogen exchanger), member 2 (Slc34a1), mRNA. Length = 2440	Solute carrier family 17 (sodium/hydrogen exchanger), member 2
.002		0 10000		Rattus norvegicus ATP- binding cassette, sub-family C (CFTR/MRP), member 9 (Abcc9), mRNA, Length =	
1591	730	NM 013040		5000	Sulfonylurea receptor 2

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TABLET:				A STATE OF	717, Docket No. 43920-6030 Doc. No. 179339
Seguence, Dixo	Mantilar	SenBanurAcci. Rof Sec ID.	Model Gode	Garra Namo	Ungono Quetor Tilo :
1592	17401	NM_013043	i,o, General	Rattus norvegicus Transforming growth factor beta stimulated clone 22 (Tgfb1i4), mRNA. Length = 1666	Transforming growth factor beta stimulated clone 22
1593	16684	NM 013052	General	Rattus norvegicus Tyrosine : monooxygenase/typtophan 5-monooxygenase activation protein, eta polypeptide (Ywhah), mRNA. Length = 1689	
1594	14421	NM_013053	u	Rattus norvegicus Tyrosine : monooxygenase/tryptophan 5-monooxygenase activation protein, theta polypeptide (Ywhaq), mRNA. Length = 2099	
1595	15254	NM 013058	k	Rattus norvegicus Inhibitor of DNA binding 3, dominant negative helix-loop-helix protein (Id3), mRNA. Length = 568	Inhibitor of DNA binding 3, dominant
1596	14997	NM_013059	s,z	Rattus norvegicus Tissue- nonspecific ALP alkaline phosphatase (Alpi), mRNA. Length = 2415	Tissue-nonspecific ALP alkaline phosphatase
1596	14996	NM_013059	General	Rattus norvegicus Tissue- nonspecific ALP alkaline phosphatase (AlpI), mRNA. Length = 2415 Rattus norvegicus CD74	Tissue-nonspecific ALP alkaline phosphatase
1597	25676	NM_013069	aa	antigen (invariant polpypeptide of major histocompatibility class II antigen-associated) (Cd74), mRNA. Length = 1150	
1597	16924	NM 013069	0	Rattus norvegicus CD74 antigen (invariant polypeptide of major histocompatibility class II antigen-associated) (Cd74), mRNA. Length = 1150	CD74 antigen (invariant polpypeptido of major histocompatibility class II antigen-associated)
1598	24748	NM_013070	h,q	Rattus norvegicus Utrophin (Utm), mRNA. Length = 10,705	Utrophin
				Rattus norvegicus Ryudocan/syndecan 2 (Sdc2), mRNA. Length =	
1599	1529	NM_013082		2153 Rattus norvegicus Tumor necrosis factor receptor superfamily, member 1a	Ryudocan/syndecan 2
1600	1521	NM_013091	j,l,z, General	(Tnfr1), mRNA. Length = 2130 Rattus norvegicus	Tumor necrosis factor receptor
1601	1685	NM_013096	c,88	Hemoglobin, alpha 1 (Hba1), mRNA. Length = 556 Rattus norvegicus	Hemoglobin, alpha 1
1601	26150	NM_013096	c,i	Hemoglobin, alpha 1 (Hba1), mRNA. Length ≈ 556 Rattus norvegicus	
1601	1688	NM_013096	p .	Hemoglobin, alpha 1 (Hba1), mRNA. Length = 556	Hemoglobin, alpha 1

WABUE OF S	EUMMARY				Affyr, Docket No. 41921 & Dock No. 17
Seguenco D No.	lifemiliter	GonBank Acci Rolf Seq ID	Model Godo	Gene Name	Unirene Cluster Tille
Takke -	ligentitier	Kensegne	code	Rattus norvegicus	Configure Citater Fills
1601	1689	NM_013096	с,р	Hemoglobin, alpha 1 (Hba1), mRNA. Length = 556	Hemoglobin, alpha 1
1601	1684	NM_013096	c,s,aa	Rattus norvegicus Hemoglobin, alpha 1 (Hba1), mRNA. Length = 556	Hemoglobin, alpha 1
				Rattus norvegicus Deoxyribonuclease I (Dnase1), mRNA. Length =	
1602	20886	NM_013097	u,x,bb	1143	Deoxyribonuclease I
1602	20887	NM_013097	u,×,bb	Rattus norvegicus Deoxyribonuclease I (Dnase1), mRNA. Length = 1143	Deoxyribonuclease I
1603	1321	NM_013098	С	Rattus norvegicus Glucose-6 phosphatase (G6pc), mRNA. Length = 2237	Glucose-6-phosphatase
				Rattus norvegicus FK506- binding protein 1 (12kD) (Fkbp1a), mRNA. Length =	
1604	15296	NM_013102	l,m	Rattus norvegicus ATPase	FK506-binding protein 1 (12kD
1606	23709	NM 013113	o,s,z,aa	Rattus norvegicus ATPase Na+/K+ transporting beta 1 polypeptide (Atp1b1), mRNA. Length = 2528	ATPase Na+/K+ transporting b
1606	23711	NM_013113	p	Rattus norvegicus ATPase Na+/K+ transporting beta 1 polypeptide (Atp1b1), mRNA. Length = 2528	ATPase Na+/K+ transporting b
				Rattus norvegicus ATPase Na+/K+ transporting beta 1 polypeptide (Atp1b1),	ATPase Na+/K+ transporting b
1606	23710	NM_013113	s	mRNA. Length = 2528 Rattus norvegicus Guanylate	polypeptide
1607	1976	NM_013118	u	cyclase activator 2 (guanylin) (Guca2a), mRNA. Length = 567	Guanylate cyclase activator 2 (guanylin)
				Rattus norvegicus MAD (mothers against	MAD (mothers against
1609	870	NM_013130	h	decapentaplegic, Drosophila) homolog 1 (Madh1), mRNA. Length = 2002	MAD (mothers against decapentaplegic, Drosophila) h
1610	16650	NM_013132	u,General	Rattus norvegicus Annexin V (Anx5), mRNA. Length = 1417	Annexin V
				Rattus norvegicus 3-hydroxy- 3-methylglutaryl-Coenzyme A reductase (Hmgcr),	3-hydroxy-3-methylglutaryl-Coe
1611	650	NM_013134	h	mRNA. Length = 2664 Rattus norvegicus 3-hydroxy-	A reductase
1611	651	NM 013134	h.j.l	3-methylglutaryl-Coenzyme A reductase (Hmgcr), mRNA, Length = 2664	3-hydroxy-3-methylglutaryl-Coe A reductase
1011	-		-4.1	Rattus norvegicus Inositol 1, 4, 5-triphosphate receptor 3 (Itor3), mRNA, Length =	
1612	1712	NM_013138	General	8806 Rattus norvegicus Insulin-	Inositol 1, 4, 5-triphosphate rec
	16982		o,v,	like growth factor binding protein 1 (Igfbp1), mRNA.	Insulin-like growth factor bindin

TADLE 1: 8	SUMMARY .	644	THE		Ally, Doctor No. 44924 5039770
Soquonee ID No.	ldentiffer	Gon Bant: Acci Rof. Son ID	Journal Goods	Gane Name	Dos. No. 1793397 ( Unigano Cluster VIII)
1614	21683	NM_013154	t,cc, General	Rattus norvegicus CCAAT/enhancerbinding, protein (C/EBP) delta (Cebpd), mRNA. Length = 1200	CCAAT/enhancerbinding, protein (C/EBP) delta
1614	21682	NM 013154	cc	Rattus norvegicus CCAAT/enhancerbinding, protein (C/EBP) delta (Cebpd), mRNA. Length = 1200	CCAAT/enhancerbinding, protein
1615	3431	NM_013156	b,g,n	Rattus norvegicus Cathepsin L (Ctsl), mRNA. Length = 1386	Cathepsin L
1615	25567	NM_013156	v,General	Rattus norvegicus Cathepsin L (Ctsl), mRNA. Length = 1386	
1615	3430	NM 013156	General	Rattus norvegicus Cathepsin L (Ctsl), mRNA. Length = 1386	Cathepsin L
1616	1309	NM_013159	w	Rattus norvegicus Insulin degrading enzyme (Ide), mRNA. Length = 4276 Rattus norvegicus Insulin	Insulin degrading enzyme
1616	1310	NM_013159	w	degrading enzyme (Ide), mRNA. Length = 4276	Insulin degrading enzyme
1617	21723	NM_013174	w	Rattus norvegicus Transforming growth factor, beta 3 (Tgfb3), mRNA. Length = 2633	Transforming growth factor, beta 3
				Rattus norvegicus Protein kinase, cAMP dependent, regulatory, type 1 (Prkar1a),	Protein kinase, cAMP dependent,
1618	1314	NM_013181	p,bb,	mRNA, Length = 1433 Rattus norvegicus Meprin 1 beta (Mep1b), mRNA.	regulatory, type 1
1819	17357	NM_013183	General	Length = 2290 Rattus norvegicus Phosphofructokinase, liver, B-type (Pfkl), mRNA. Length	Meprin 1 beta
1620	1300	NM_013190	у	= 2740 Rattus norvegicus Aminolevulinate synthase 2.	Phosphofructokinase, liver, B-type
1621	16448	NM_013197	c	delta (Alas2), mRNA. Length = 1899	Aminolevulinate synthase 2, delta
1622	20856	NM_013200	b	Rattus norvegicus Camitine palmitoyltransferase 1 beta, muscle isoform (Cpt1b), mRNA. Length = 2826	Camitine palmitoyltransferase 1 beta, muscle isoform
1623	397	NM 013214		Rattus norvegicus acyl-CoA hydrolase (RBACH), mRNA. Length = 1523	Rattus norvegicus brain cytosolic acyl coenzyme A thioester hydrolase mRNA, complete cds,acyl-CoA hydrolase
				Rattus norvegicus aflatoxin B1 aldehyde reductase (AFAR), mRNA. Length =	
1624	20864	NM_013215	g.n.y	Rattus norvegicus afadin (AF- 6), mRNA. Length = 5957	aflatoxin B1 aldehyde reductase
1625	20728	NM_013217	ľ	Rattus norvegicus augmenter of liver regeneration (ALR), mRNA.	grace.
1626	1396	NM_013222	<u> </u>	Length = 1226 Rattus norvegicus ribosomal	augmenter of liver regeneration

TABLE OF	UMMARV		. 46.0		ATJ. Dockel Mo. 44920-50300 Doc. Mo. 179839
Sequence ID No.	Mandifiar	GonBank/Acc// Ref. Sequib	Model Code	Genic Namo	Udjane Gluster Tille
				Rattus norvegicus ribosoma protein L32 (Rpl32), mRNA.	
1628	18305	NM_013226	lv	Length = 465 Rattus norvegicus Acvi-	
1629	21078	NM_016986	d	Coenzyme A dehydrogenase, C-4 to C-12 straight-chain (Acadm), mRNA. Length = 1866	Acyl-Coenzyme A dehydrogenase, 4 to C-12 straight-chain
				Rattus norvegicus Acid phosphatase 2, lysozymal (Acp2), mRNA. Length =	
1630	24649	NM_016988	v	2009	Acid phosphatase 2, lysozymal
1631	15239	NM 016989	g,w	Rattus norvegicus adenylate cyclase activating polypeptide 1 (Adcyap1), mRNA, Length = 2681	R.norvegicus (Sprague Dawley) ribosomal protein L15 mRNA
1001	10255	THE DIOSES	9,11	mitter congar - 2007	THOOSOMAN PROCESS C. TO THE CAPA
				Rattus norvegicus Calcium- sensing receptor (hypocalciuric hypercalcemia 1, severe neonatal hyperparathyroidism) (Casr),	Calcium-sensing receptor
1632	45	NM_016996	General	mRNA. Length = 4113	severe neonatal hyperparathyroidism
1633	20714	NM_016999		Rattus norvegicus Cytochrome P450, subfamily IVB, polypeptide 1 (Cyp4b1), mRNA. Length = 2462	
1633	20713	NM_016999	ı	Rattus norvegicus Cytochrome P450, subfamily IVB, polypeptide 1 (Cyp4b1), mRNA. Length = 2462	Cytochrome P450, subfamily IVB, polypeptide 1
1633	20711	NM 016999	q,t	Rattus norvegicus Cytochrome P450, subfamily IVB, polypeptide 1 (Cyp4b1), mRNA. Length = 2462	Cytochrome P450, subfamily IVB, polypeptide 1
1633	20715	NM_016999	q,t	mRNA. Length = 2462	Cytochrome P450, subfamily IVB, polypeptide 1
				Rattus norvegicus Diaphorase (NADH/NADPH) (Dia4), mRNA. Length =	
1634	1698	NM_017000	General	1396	Diaphorase (NADH/NADPH)
1635	1399	NM_017006	h,n, j	Rattus norvegicus Glucose-6 phosphate dehydrogenase (G6pd), mRNA. Length = 2324	Glucose-6-phosphate dehydrogenas
637	18989	NM_017013	n	Rattus norvegicus Glutathione-S-transferase, alpha type (Yc?) (Gsta2), mRNA. Length = 830	Glutathione-S-transferase, alpha typ (Yc?)
1638	21013	NM 017014		Rattus norvegicus Glutathione-S-transferase, mu type 2 (Yb2) (Gstm2), mRNA. Length = 1055	Glutathione-S-transferase, mu type 2 (Yb2)
1638	21015			Rattus norvegicus Glutathione-S-transferase, mu type 2 (Yb2) (Gstm2),	Glutathione-S-transferase, mu type 2

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TABLE 1:	SUMMARY	100			Ally, Dorkel No. 44921-5033
Saguence		GanBank Acol	Model		Doc. No. 17930
DUO:	i ichamba	Rad Sag (10	Gade :	Gama Klama	Unigene Cluster Tho
1639	11836	NM 017023	6	Rattus norvegicus Potassiun inwardly-rectifying channel, subfamily J (Kcnj1), mRNA. Length = 2069	Potassium inwardly-rectifying char
1639	5475	NM_017023	ь	Rattus norvegicus Potassiun inwardly-rectifying channel, subfamily J (Kcnj1), mRNA. Length = 2069 Rattus norvegicus Potassiun	ESTs,Potassium inwardly-rectifying channel, subfamily J
1639	25546	NM 017023	b,bb	inwardly-rectifying channel, subfamily J (Kcnj1), mRNA. Length = 2069	
	1		1	Rattus norvegicus Lactate	
1640	17807	NM 017025	I,General	dehydrogenase A (Ldha), mRNA. Length = 1609	Lactate dehydrogenase A
				Rattus norvegicus Protein phosphatase 2 (formerly 2A), catalytic subunit, beta isoform (Ppp2cb), mRNA.	Protein phosphatase 2 (formerly 2)
1641	24597	NM_017040	u	Length = 1843 Rattus norvegicus Solute	catalytic subunit, beta isoform
				carrier family 4, member 2, anion exchange protein 2 (Slc4a2), mRNA. Length =	Solute carrier family 4, member 2,
1642	24696	NM_017048	f,j,z	4057 Rattus norvegicus Solute	anion exchange protein 2
				camier family 4, member 3, anion exchange protein 3 (Sic4a3), mRNA. Length =	Solute carrier family 4, member 3,
1643	24695	NM_017049	u	3877 Rattus norvegicus Superoxide dismutase 1, soluble (Sod1), mRNA.	anion exchange protein 3
1644	20876	NM_017050	j,n,z	Length = 650	Superoxide dimutase 1, soluble
1645	910	NM_017059	f,i,m	Rattus norvegicus Bcl2- associated X protein (Bax), mRNA. Length = 579	Bcl2-associated X protein
1645	912	NM_017059		Rattus norvegicus Bcl2- associated X protein (Bax), mRNA. Length = 579 Rattus norvegicus Lysyl	Bcl2-associated X protein
1646	1946	NM_017061	h	oxidase (Lox), mRNA. Length = 4557 Rattus norvegicus Lysyl	Lysyl oxidase
1646	1942	NM_017061	t,General	oxidase (Lox), mRNA.	Lysyl oxidase
1646	1943	NM 017061		oxidase (Lox), mRNA. Length = 4557	Lysyl oxidase
	100			Rattus norvegicus Pleiotrophin (Heparine binding factor, Hbnf, in the mouse) (Ptn), mRNA. Length	
1647	6062	NM_017066	d	= 1246 Rattus norvegicus Lysosomal-associated	Hbnf, in the mouse)
1648	6654	NM_017068	w	membrane protein 2 (Lamp2), mRNA. Length = 1548 Rattus norvegicus Glutamine	Lysosomal-associated membrane protein 2
				synthetase (glutamate- ammonia ligase) (Glul),	Glutamine synthetase (glutamate-
1649	11153	NM_017073	s	mRNA. Length = 2793	ammonia ligase)

TABLE 1: S	SUMMARY				Alily, Deethal No. 44921 Dec. No. 1
Soquence D Vo.	(clerativier	GoriBanik Acal Rafi Sag ID	Modal Goda	Gano Namo	t. Váljono Giustav Tilló
				Rattus norvegicus Tumor- associated glycoprotein pE4	
1650	923	NM_017076	General	(Tage4), mRNA. Length = 2171 Rattus norvegicus CD1D	Tumor-associated glycoprote
1651	1523	NM_017079	5	antigen (Cd1d), mRNA. Length = 1835	CD1D antigen
				Rattus norvegicus Hydroxysteroid dehydrogenase, 11 beta typo	
1652	23660	NM_017080	s	1 (Hsd11b1), mRNA. Length = 1265 Rattus norvegicus	Hydroxysteroid dehydrogena beta type 1
			b.d.	Hydroxysteroid dehydrogenase, 11 beta typo 2 (Hsd11b2), mRNA, Length	
1653	275	NM_017081	General	= 1864 Rattus norvegicus Urmodulin	bets type 2
				(Tamm-Horsfall protein) (Umod), mRNA. Length =	
1654	16211	NM_017082	j,s,z	Rattus norvegicus Glycine	Urmodulin (Tamm-Horsfall pr
1655	1552	NM_017084	1	methyltransferase (Gnmt), mRNA. Length = 988 Rattus norvegicus Glycine	Glycine methyltransferase
1655	1550	NM_017084	y	methyltransferase (Gnmt), mRNA. Length = 988	Glycine methyltransferase
1656	22552	NM_017087	a,k,x	Rattus norvegicus Small proteoglycan I (biglycan), bone (BSPG1) (bone/cartillage proteclycan 1 precursor) (Bgn), mRNA. Length = 2446	Small proteoglycan I (biglyca (BSPG1) (bone/cartilage prot 1 precursor)
	8888			Rattus norvegicus guanylate cyclase 1, soluble, alpha 3 (Gucy1a3), mRNA. Length = 4775	Guanylate cyclase, soluble, a
1657	8888	NM_017090	m	Rattus norvegicus Growth	(GTP pyrophosphate - lyase)
1658	10887	NM_017094	a,General	hormone receptor (Ghr), mRNA. Length = 2950 Rattus norvegicus	Growth hormone receptor
1659	4393	NM_017101	a,y	Peptidylprolyl isomerase A (cyclophilin A) (Ppia), mRNA. Length = 743	Peptidylprolyl isomerase A (c A)
			-	Rattus norvegicus solute carrier family (organic anion transporter) member 1 (Slc21a1), mRNA. Length =	solute carrier family (organic
1660	24770	NM_017111	a :	2758 Rattus norvegicus granulin	transporter) member 1
1661	20745	NM_017113	е	(Gm), mRNA. Length = 2113 Rattus norvegicus granulin	granulin
1661	20746	NM_017113	a	(Gm), mRNA. Length = 2113. Rattus norvegicus	granulin
1662	1375	NM_017122	w	hippocalcin (Hpca), mRNA. Length = 1561	hippocalcin
1663	12903	NM 017124		Rattus norvegicus CD37 antigen (Cd37), mRNA. Length = 1158	CD37 antigen
1003	12503	JNM_017124	-	Rattus norvegicus taminin receptor 1 (Lamr1), mRNA.	CD37 anagen
1664	24885	NM_017138	r	Length = 1018 Rattus norvegicus laminin	taminin receptor 1
				receptor 1 (Lamr1), mRNA.	

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TABLE 1	SUMMARY			***	Any, Docket No. 44924
W 45 4-4					, , , , , , , , , , , , , , , , , , ,
D No.		GonBark Actal Raf. Gaq ID	Modal Godo	Genc Marro	Unigana Cluster Tilla
				Rattus norvegicus cofilin 1, non-muscle (Cfi1), mRNA.	
1665	15363	NM 017147	n,u	Length = 1039	cofilin 1, non-muscle
				Rattus norvegicus cysteine	
1666	13392	NM 017148	u,General	rich protein 1 (Csrp1), mRNA. Length = 1403	cysteine rich protein
			1	Rattus norvegicus ribosomal	
1667	5351	NM 017150	,	protein L29 (Rpl29), mRNA. Length = 630	ribosomal protein L29
			1	Rattus norvegicus ribosomal	
1668	16954	NM 017151	a.n	protein S15 (Rps15), mRNA. Length = 487	ribosomal protein S15
	10004	1	f	Rattus norvegicus ribosomal	neconiar protein 913
1669	21643	NIN 047450		protein S17 (Rps17), mRNA.	ofheremal exetein \$47
1009	Z1043	NM_017152	9	Length = 466 Rattus norvegicus ribosomal	ribosomal protein S17
		l	l	protein S3a (Rps3a), mRNA.	
1670	1694	NM_017153	p,q	Length = 880 Rattus norvegicus ribosomal	ribosomal protein S3a
			bb.	protein S6 (Rps6), mRNA.	
1671	17104	NM_017160	General	Length = 801 Rattus norvegicus ribosomal	ribosomal protein S6
		1		protein S6 (Rps6), mRNA.	
1671	17106	NM_017160	u	Length = 801	ribosomal protein S6
	1	ı		Rattus norvegicus ribosomal protein S6 (Rps6), mRNA,	
1671	17107	NM_017160	d,e	Length = 801	ribosomal protein S6
	1			Rattus norvegicus	
				glutathione peroxidase 4	
1672	17686	NM_017165	n,q	(Gpx4), mRNA. Length = 872 Rattus norvegicus Leukemia-	glutathione peroxidase 4
				associatedcytosolic	
	1			phosphoprotein stathmin (Lap18), mRNA, Length =	Leukemia-associated cytoso
1673	20702	NM_017166	c	1054	phosphoprotein stathmin
				Rattus norvegicus	
				choline/ethanolamine kinase (Chetk), mRNA. Length =	
1674	3513	NM_017177	r	1679	choline/ethanolamine kinase
	1			Rattus norvegicus T-cell death associated gene	
				(Tdag), mRNA. Length =	
1675	19031	NM_017180	v,General	1353 Rattus norvegicus high	T-cell death associated gene
				mobility group box 2	
40.70	15437	047407		(Hmgb2), mRNA. Length =	bleb bliffs
1676	15437	NM_017187		1072 Rattus norvegicus high	high mobility group protein 2
				mobility group box 2	
1676	15433	NM 017187		(Hmgb2), mRNA. Length = 1072	high mobility group protein 2
	1.2.30			Rattus norvegicus high	mgcomy group protein 2
			1	mobility group box 2 (Hmgb2), mRNA. Length =	
1676	15434	NM 017187		(Hmgb2), mKNA. Length = 1072	high mobility group protein 2
				Rattus norvegicus Myelin-	
				associated glycoprotein (Mag), mRNA. Length =	
1677	24437	NM_017190	p	2474	Myelin-associated glycoprotei
				Rattus norvegicus kynurenine aminotransferase	
			1	II (Kat2), mRNA. Length =	
1678	1542	NM 017193			kynurenine aminotransferase I

TABLE	SUMMARY		1		ANY, DOCKOL No. 44921-603
Sagrand Dina	e Manifilar	Gordentk Assel Roft Googlis	Modal Godo	Gano Namo	Doc. No. 17793 Uritana Glaskar Tilka
1679	14695	NM 017202	lg.s	Rattus norvegicus cytochrome c oxidase, subunit IVa (Cox4a), mRNA Length = 696	cytochrome c oxidase, subunit IV
1679	14694	NM 017202	s.z	Rattus norvegicus cytochrome c oxidase, subunit IVa (Cox4a), mRNA Length = 696	
1680	1428	NM 017213	_	Rattus norvegicus outer dense fiber of sperm tails 2 (Odf2), mRNA. Length = 2451	outer dense fiber of sperm tails 2
1681	1622	NM_017216	g.j.s.z	Rattus norvegicus solute carrier family 3, member 1 (Slc3a1), mRNA. Length = 2305	solute carrier family 3, member 1
1682	13642	NM_017220	v	Rattus norvegicus 6-pyruvoj tetrahydropterin synthase (Pts), mRNA. Length = 1176 Rattus norvegicus 6-pyruvoj	/IESTs
1682	19976	NM_017220	w	tetrahydropterin synthase (Pts), mRNA. Length = 1176 Rattus norvegicus organic cationic transporter-like 1	
1683	1510	NM_017224	General	(Orcti1), mRNA. Length = 2227 Rattus norvegicus	organic cationic transporter-like 1
1684	1811	NM_017228	j,l,m,z	dentatorubral pallidoluysian atrophy (Drpla), mRNA. Length = 4387 Rattus norvegicus eukaryotlo	dentatorubral pallidoluysian atropi
1686	17563	NM_017245	a,c,e,q	translation elongation factor 2 (Eef2), mRNA. Length = 2626 Rattus norvegicus	eukaryotic translation elongation factor 2
1687	17502	NM_017248		heterogeneous nuclear ribonucleoprotein A1 (Hinrpa1), mRNA. Length = 1696	heterogeneous nuclear
1007	17502	NM_017246		Rattus norvegicus heterogenecus nuclear ribonucleoprotein A1	ribonucleoprotein A1
1687	17501	NM_017248	x	(Hnrpa1), mRNA. Length = 1696 Rattus norvegicus B-cell translocation gene 1, anti-	heterogeneous nuclear ribonucleoprotein A1
1688	19	NM_017258	v,General	proliferative (Btg1), mRNA. Length = 1464 Rattus norvegicus B-cell translocation gene 2, anti-	B-cell translocation gene 1, anti- proliferative
1689	15300	NM_017259	i,v,cc, General	proliferative (Blg2), mRNA. Length = 2519 Rattus norvegicus B-cell translocation gene 2, anti-	B-cell translocation gene 2, anti- proliferative
1689	15301	NM_017259	c, General	proliferative (Blg2), mRNA. Length = 2519 Rattus norvegicus B-cell translocation gene 2, anti-	B-cell translocation gene 2, anti- proliferative
1689	15299	NM 017259	l,y,cc,	translocation gene 2, anti- proliferative (Btg2), mRNA. Length = 2519	B-cell translocation gene 2, anti- proliferative

TABLET: S	UMMARY		NV CON	7.0	Airy, Doaket No. 44921-503300 Doc. No. 1793397
Squince Duc	liderallifer	Gordenix Accd Roll-Stop ID	Model Gode	Gono Namo	Uniform Cluster Title
1691	3987	NM 017280	bb	Rattus norvegicus proteasome (prosome, macropain) subunit, alpha type 3 (Psma3), mRNA. Length = 897	proteasome (prosome, macropain) subunit, alpha type 3
				Rattus norvegicus proteasome (prosome, macropain) subunit, alpha type 4 (Psma4), mRNA.	proteasome (prosome, macropain)
1692	1447	NM_017281		Length = 1121  Rattus norvegicus proteasome (prosome, macropain) subunit, alpha type 6 (Psma6), mRNA,	subunit, alpha type 4
1693	15535	NM_017283	s,bb	Length = 932 Rattus norvegicus ATPase,	subunit, alpha type 6
1694	12349	NM_017290	General	Ca++ transporting, cardiac muscle, slow twitch 2 (Atp2a2), mRNA. Length = 5648	ATPase, Ca++ transporting, cardiac muscle, slow twitch 2
1695	15819	NM 017298		Rattus norvegicus calcium channel, voltage-dependent, L type, alpha 1D subunit (Cacna1d), mRNA. Length = 7986	calcium channel, voltage-dependent, L type, alpha 1D subunit
1696	23825	NM 017299	v	Rattus norvegicus solute carrier family 19 (sodium/hydrogen exchanger), member 1 (Sic19a1), mRNA. Length = 2402	solute carrier family 19 (sodium/hydrogen exchanger), member 1
1696	23826	NM 017299	v	Rattus norvegicus solute carrier family 19 (sodilum/hydrogen exchanger), member 1 (Slc19a1), mRNA. Length = 12402	solute carrier family 19 (sodium/hydrogen exchanger), member 1
1697	14003	NM 017305	j.l.m.y.z	Rattus norvegicus glutamate cysteine ligase , modifier subunit (Gclm), mRNA. Length = 1382	Glutamate-cysteine ligase (gamma- glutamylcysteine synthetase), regulatory
				Rattus norvegicus dodecenoyl-Coenzyme A delta isomerase (3,2 trans- enoyl-Coenyme A isomerase) (DCI), mRNA.	
1698	26109	NM_017306	q.s	Length = 972 Rattus norvegicus dodecenoyl-Coenzyme A delta isomerase (3,2 trans- enoyl-Coenyme A	EST  Rat mRNA for delta3, delta2-encyl- CoA isomerase,dodecencyl-
1698	18687	NM_017306	g,t	isomerase) (DCI), mRNA. Length = 972 Rattus norvegicus ubiquitin	Coenzyme A della isomerase (3,2 trans-enoyl-Coenyme A isomerase)
1699	18142	NM_017314	g,s,aa	C (Ubc), mRNA. Length = 2545 Rattus norvegicus cathepsin	ubiquitin C
1700	1894	NM_017320	t .	S (Ctss), mRNA. Length = 1330 Rattus norvegicus	cathepsin S
1701	20809	NM_017326	u ,	calmodulin (RCM3), mRNA. Length = 1112 Rattus norvegicus transcriptional repressor	calmodulin
1702	355	NM_017334	cc	CREM (CREM), mRNA. Length = 436	

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Table 1: 8	CUMINARY		A CONTRACTOR	1	Atty: Docket No. 44924-503900 Dos. No. 1793997
Saquanec 10 No.	ldentifer	Gome in Accor Ref. See D	Model Code	Channe Marme	Unit pure Gluster Tile
1703	16148	NM 017340	q,s	Rattus norvegicus acyl-coA oxidase (RATACOA1), mRNA. Length = 3741	acyl-coA oxidase
1703	16150	NM 017340	a	Rattus norvegicus acyl-coA oxidase (RATACOA1), mRNA. Length = 3741	acyl-coA oxidase
1704	20849	NM 017343	r,u, General	Rattus norvegicus myosin regulatory light chain (MRLCB), mRNA. Length = 1139	Rat mRNA for myosin regulatory light
1704	20848	NM 017343	b.General	Rattus norvegicus myosin regulatory light chain (MRLCB), mRNA. Length = 1139	Rat mRNA for myosin regulatory light
1705	606	NM 017350	b,General	Rattus norvegicus urinary plasminogen activator receptor 2 (uPAR-2), mRNA. Length = 1272	urinary plasminogen activator receptor
				Rattus norvegicus PDZ and LIM domain 1 (elfin) (Pdlim1), mRNA, Length =	
1706	1581	NM_017365	General	1392 Rattus norvegicus Tropomyosin 1 (alpha) (Tpm1), mRNA. Length =	LIM prolein
1707	455	NM_019131	×	1004 Rattus norvegicus Tropomyosin 1 (alpha) (Tpm1), mRNA. Length =	Tropomyosin 1 (alpha)
1707	456	NM_019131	y,z	1004 Rattus norvegicus Solute carrier family 12, member 1 (burnetanide-sensitive sodium-[potassium]-chloride	Tropomyosin 1-(alpha)  Solute carrier family 12, member 1 (burnetanide-sensitive sodium-
1708	4532	NM_019134	b	cotransporter) (Slc12a1), mRNA. Length = 4595 Rattus norvegicus synaptogyrin 1 (Syngr1),	(potassium)-chloride cotransporter) [ESTs, Moderately similar to synaptogyrin
1709	1608	NM_019166	j.y.z	mRNA. Length = 879 Rattus norvegicus synuclein, alpha (Snca), mRNA. Length	[R.norvegicus],synaptogyrin 1
1710	7489	NM_019169	c,General	= 1018 Rattus norvegicus carbonyl reductase (Cbr), mRNA.	synuclein, alpha
1711	17066	NM_019170	р	Length = 1018 Rattus norvegicus carbonic anhydrase 4 (Ca4), mRNA.	carbonyl reductase ESTs, Highly similar to CARBONIC ANHYDRASE IV PRECURSOR
1712	23924	NM_019174 NM_019186	bb	Length = 1205 Rattus norvegicus ADP- ribosylation-like 4 (Arl4),	[R.norvegicus]  ADP-ribosviation-like 4
1713	22063	NM 019185	d	mRNA. Length = 1067 Rattus norvegicus integrin- associated protein (Cd47), mRNA. Length = 1053	integrin-associated protein
1715	2079	NM_019220	j,k,z	Rattus norvegicus amino- terminal enhancer of split (Aes), mRNA. Length = 1356	related to Drosophila groucho gene
1716	16284	NM 019229	l,m	Rattus norvegicus solute carrier family 12, member 4 (Slc12a4), mRNA. Length = 3726	solute carrier family 12, member 4
1716	985	NM_019229	b.cc	3726 Rattus norvegicus small inducible cytokine subfamily A20 (Scya20), mRNA. Length = 816	small inducible cytokine subfamily A20

MABUE O G	UMMARY			A POST OF THE	-Affy. Codet No. 4124-41317 Dos. No. 179399
Saguorico ID No.	leientifier	GorBank Acci Rof. Sog ID	Modal Code	George (Manuse	Valgano Cuestar Villa
1718	15503	NM_019237	k,x	Rattus norvegicus procollagen C-proteinase enhancer protein (Pcolce), mRNA. Length = 1547	procollagen C-proteinase enhancer protein
1718	15504	NM_019237	k,x	Rattus norvegicus procollagen C-proteinase enhancer protein (Pcolce), mRNA. Length = 1547	procollagen C-proteinase enhancer protein
1719	17908	NM_019242	I,v,cc, General	Rattus norvegicus interferon- related developmental regulator 1 (ffrd1), mRNA. Length = 1736	interferon-related developmental regulator 1
1720	11218	NM 019247	c	Rattus norvegicus paired-like homeodomain transcription factor 3 (Pitx3), mRNA. Length = 1253	paired-like homeodomain transcription
				Rattus norvegicus complement component 1, q subcomponent binding protein (C1qbp), mRNA.	complement component 1, q
1721	21443	NM_019259 NM_019262	aa, General	Length = 1124 Rattus norvegicus complement component 1, q subcomponent, beta polypeptide (C1qb), mRNA. Length = 1136	subcomponent binding protein  complement component 1, q subcomponent, beta polypeptide
			t.General	Rattus norvegicus complement component 1, q subcomponent, beta polypeptide (C1qb), mRNA.	complement component 1, q
1722	117	NM_019262 NM_019266	o,bb	Length = 1136 Rattus norvegicus sodium channel, voltage-gated, type VIII, alpha polypeptide (Scn8a), mRNA. Length = 6586	subcomponent, beta polypeptide sodium channel, voltage-gated, type VIII, alpha polypeptide
1724	1145	NM 019280	w	Rattus norvegicus gap junction membrane channel protein alpha 5 (Gja5), mRNA. Length = 3115	gap junction membrane channel protein alpha 5
1725	22220	NM_019286		Rattus norvegicus Alcohol dehydrogenase 3 (Adh3), mRNA. Length = 1131	Alcohol dehydrogenase (class I), alpha polypeptide
1726	10015	NM_019289	neral .	Rattus norvegicus Actin- related protein complex 1b (Arpc1b), mRNA. Length = 1430	Actin-related protein complex 1b
1726	10016	NM_019289	bb, General	Rattus norvegicus Actin- related protein complex 1b (Arpc1b), mRNA. Length = 1430	Actin-related protein complex 1b
1727	21651	NM_019296	c,f,x		Cell division cycle control protein 2
1728	20751	NM 019301		Rattus norvegicus Complement receptor related protein (Cr1), mRNA. Length = 1811	Complement receptor related protein
1729	645		- 1	Rattus norvegicus solute carrier family 12, member 3 (Slc12a3), mRNA. Length =	solute carrier family 12, member 3

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TABLE	: Summar	Y			Ally, Dockel No. 419214 Doc. No. 17
Sections ID No.	io Month	Contectula Act Ref. Seq.(D)		Getro Name	Unifrana Cluator Villo
1730	1301	NM_019349	c	Rattus norvegicus Serine/threonine kinase 2 (Stk2), mRNA. Length = 4194	Rat liver stearyl-CoA desatura mRNA, complete cds
1731	3776	NM_019354	a,u	Rattus norvegicus Uncoupling protein 2, mitochondrial (Ucp2), mRNA Length = 1575	Uncoupling protein 2, mitocho
1732	4592	NM_019356	General	Rattus norvegicus eukaryotic translation initiation factor 2, subunit 1 (alpha ) (Eif2s1), mRNA. Length = 1377	eukaryotic translation initiation 2, subunit 1 (alpha )
1733	1324	NM_019371	w	Rattus norvegicus factor- responsive smooth muscle protein (SM-20), mRNA. Length = 2825	factor-responsive smooth mus
1734	19577	NM_019377	e	Rattus norvegicus 14-3-3 protein beta-subtype (Ywhab), mRNA. Length = 2756	ESTs, Moderately similar to Shypothetical protein [M.muscul
1735	24626	NM_019381	s		Testis enhanced gene transcri
1736	744	NM_019622	p	Rattus norvegicus espin (Espn), mRNA. Length = 2786	espin
1737	20716	NM_019623	С	Rattus norvegicus cytochrome P450 4F1 (Cyp4f1), mRNA, Length = 1977	cytochrome P450 4F1
1738	20709	NM_019904	x	Rattus norvegicus beta- galactoside-binding lectin (Lgals1), mRNA. Length = 519	beta-galactoside-binding lectin
1739	574	NM_019905	u,General	Rattus norvegicus calpactin I heavy chain (Anxa2), mRNA. Length = 1395 Rattus norvegicus	Rattus norvegicus clone BB.1.4 unknown Glu-Pro dipeptide rep protein mRNA, complete cds.cc I heavy chain,hydroxyacid oxida (medium-chain)
1740	9096	NM_019908		hypothetical protein LOC56728 (LOC56728), mRNA. Length = 858	hypothetical protein LOC56728
1741	20457	NM_020073	i,General	Rattus norvegicus parathyroid hormone receptor (LOC56813), mRNA. Length = 2065	parathyroid hormone receptor
1741	20458	NM_020073	General		parathyroid hormone receptor
1741	20460	NM_020073	1 1	Rattus norvegicus parathyroid hormone receptor (LOC56813), mRNA. Length = 2065	parathyroid hormone receptor
1742	18713	NM_020075	1 1	Rattus norvegicus eukaryotic initiation factor 5 (eIF-5) (Eif5), mRNA. Length = 3504	eukacyotic initiation factor 5 (elF
742	18715	NM 020075		Rattus norvegicus eukaryotic initiation factor 5 (eIF-5)	aukaryotic initiation factor 5 (elF

TABLE 1: I	SUMMARY				Affly Doubet No. 44921-5133V Dos. No. 179393
Soquance TD No.	Mantifer	GenBerik Accil		Genro Neuro	Unigens Clusica Tilo
				Rattus norvegicus 3- hydroxyanthranilate 3,4- dioxygenase (Haao), mRNA	3-hydroxyanthranilate 3,4-
1743	20493	NM_020076	P	Length = 1254 Rattus norvegicus kidney- specific membrane protein	dioxygenase
1744	16375	NM_020976	g	(NX-17), mRNA. Length = 1181 Rattus norvegicus thymosin,	kidney-specific membrane protein
1745	20816	NM_021261	k,General	Rattus norvegicus ribosomal	thymosin beta-10
1746	15335	NM_021264	a	protein L35a (Rpl35), mRNA Length = 348 Rattus norvegicus	ribosomal protein L35a
1747	18729	NM_021578	, k,z	transforming growth factor beta-1 gene (Tgfb1), mRNA. Length = 1585	transforming growth factor beta-1 gene
				Rattus norvegicus transforming growth factor- beta (TGF-beta) masking protein large subunit (Ltbp1).	transforming growth factor-beta (TGI
1748	19060	NM_021587	СС	mRNA. Length = 6244 Rattus norvegicus kynurenine 3-hydroxylase	beta) masking protein large subunit
1749	17324	NM_021593	o,General	Rattus norvegicus Thyroxine	kynurenine 3-hydroxylase
1750	19679	NM_021653	General	deiodinase, type I (Dio1), mRNA. Length = 2106 Rattus norvegicus Thyroxine	Thyroxine delodinase, type I
1750	19678	NM_021653	a,v, General	deiodinase, type I (Dio1), mRNA. Length = 2106 Rattus norvegicus putative potassium channel TWIK	Thyroxine delodinase, type I
1751	19665	NM_021688	u,General	(Kcnk1), mRNA. Length = 1582 Rattus norvegicus cAMP- regulated guanine nucleotide	putative potassium channel TWIK
1752	19667	NM_021690	m	exchange factor I (cAMP- GEFI) (Epac), mRNA. Length = 3373	cAMP-regulated guanine nucleotide exchange factor I (cAMP-GEFI)
1754	22916	NM_021740	a	Rattus norvegicus prothymosin alpha (Ptma), mRNA. Length = 1182	prothymosin alpha
1755	19710	NM_021744		Rattus norvegicus CD14 antigen (Cd14), mRNA. Length = 1591	CD14 antigen
1755	19711	NM_021744	t	Rattus norvegicus CD14 antigen (Cd14), mRNA. Length = 1591 Rattus norvegicus farnesoid	CD14 antigen
1756	19712	NM_021745	1 3	X activated receptor (LOC60351), mRNA. Length = 2070	farnesoid X activated receptor
				Rattus norvegicus cysteine- sulfinate decarboxylase (Csad), mRNA. Length =	Rattus norvegicus cca2 mRNA,
1757	1962	NM_021750		2413 Rattus norvegicus cysteine- sulfinate decarboxylase (Csad), mRNA. Length =	complete cds
1757	19824	NM 021750		(Usad), mKNA. Length = 2413	cysteine-sulfinate decarboxylase

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VABUET	SUMMARY				Ally, Dockel No. 44921 - Doc. No. 17
Sequence ID No.	) Debar <b>iti</b> lar	GenBernk Acel Raf Stept D	Mode Godo	Gene Namo	Unigero Cluster Villo
1758	20035	NM_021754	b,n,s,v, General	Rattus norvegicus Nopp140 associated protein (Nap65), mRNA. Length = 1980 Rattus norvegicus pleiotropio	Nopp140 associated protein
1759	20090	NM_021757	m	regulator 1 (Pirg1), mRNA. Length = 1545	pleiotropic regulator 1
1760	17885	NM 021765	aa	Rattus norvegicus beta prime COP (Copb), mRNA. Length = 3025	beta prime COP
1762	20161	NM 021836	cc, General	Rattus norvegicus jun B proto-oncogene (Junb), mRNA. Length = 1035	jun B proto-oncogene
1764	1203	NM 021997	k,z	Rattus norvegicus cytoplasmic linker 2 (Cyln2), mRNA. Length = 4847	cytoplasmic linker 2
1765	23151	NM_022005	b	Rattus norvegicus FXYD domain-containing ion transport regulator 6 (Fxyd6) mRNA. Length = 1711	FXYD domain-containing ion tr
1767	17101	NM_022179	bb	Rattus norvegicus Hexokinase 3 (Hk3), mRNA. Length = 3692	Hexokinase 3
1767	17100	NM_022179	bb	Rattus norvegicus Hexokinase 3 (Hk3), mRNA. Length = 3692	Hexokinase 3
1768	20257	NM_022180	w, General	Rattus norvegicus Hepatic nuclear factor 4(alpha transcription factor 4) (Hnf4a), mRNA. Length = 1446 Rattus norvegicus Hepatic	Hepatic nuclear factor 4 (alpha transcription factor 4)
1768	25699	NM_022180		nuclear factor 4(alpha transcription factor 4) (Hnf4a), mRNA. Length = 1446	Hepatic nuclear factor 4 (alpha transcription factor 4)
1768	10860	NM_022180	Р	Rattus norvegicus Hepatic nuclear factor 4(alpha transcription factor 4) (Hnf4a), mRNA. Length = 1446	ESTs
1769	23780	NM 022183	k.x	Rattus norvegicus topolsomerase (DNA) II alpha (Top2a), mRNA. Length = 6052	
1769	23780	NM_022183	K,X	Rattus norvegicus resiniferatoxin-binding, phosphotriesterase-related	topoisomerase (DNA) II alpha
1770	20312	NM_022224	•	protein (Rpr1), mRNA. Length = 1050 Rattus norvegicus	resiniferatoxin-binding, phosphotriesterase-related prol
1771	6585	NM_022266	d,p,cc	connective tissue growth factor (Ctgf), mRNA. Length = 2345	connective tissue growth factor
1772	17161	NM_022298	i,v,cc, General	Rattus norvegicus alpha- tubulin (Tuba1), mRNA. Length = 1617 Rattus norvegicus alpha-	alpha-tubulin
1772	17162	NM_022298		tubulin (Tuba1), mRNA. Length = 1617 Rattus norvegicus alpha-	alpha-tubulin
1772	17160	NM_022298		tubulin (Tuba1), mRNA. Length = 1617	alpha-tubulin
1772	17158	NM 022298	1	Rattus norvegicus alpha- tubulin (Tuba1), mRNA. Length = 1617	alpha-tubulin

MAGLE 1: 6					Anj. Docket No. 44921-503 Doc. No. 1793
Sapana Dua	Montifrer	GonEurl: Apol Roll Sug ID	Model Godb	Comp Namo	Unigano Gluster Title
1773	11454	NM 022381	i,aa, General	Rattus norvegicus Proliferating cell nuclear antigen (Pcna), mRNA. Lenoth = 1160	Proliferating cell nuclear antigen
1773	11455	NM_022381	I,General	Rattus norvegicus Proliferating cell nuclear antigen (Pcna), mRNA,	Proliferating cell nuclear antigen
1774	13480	NM 022390	s	Rattus norvegicus quinoid dihydropteridine reductase (Qdpr), mRNA. Length = 1307	quinoid dihydropteridine reductasi
1775	15184	NM 022391	z	Rattus norvegicus pituitary tumor-transforming 1 (Pttg1) mRNA, Length = 974	
776	22413	NM_022392	h	Rattus norvegicus growth response protein (CL-6) (LOC64194), mRNA. Length = 2410	growth response protein (CL-6)
776	22414	NM 022392	n	Rattus norvegicus growth response protein (CL-6) (LOC64194), mRNA. Length = 2410	growth response protein (CL-6)
				Rattus norvegicus macrophage galactose N- acetyl-galactosamine specific lectin (MgI), mRNA.	
779	22499 24537	NM_022393 NM_022399	t e	Length = 1358 Rattus norvegicus calreticulin (Calr), mRNA. Length = 1882	Gal/GalNAc-specific lectin
1779	24539	NM_022399	у	Rattus norvegicus calreticulin (Calr), mRNA. Length = 1882 Rattus norvegicus pleclin	calreticulin
1780	1141	NM_022401	o,General	(Plec1), mRNA. Length = 15,231 Rattus norvegicus acidic	plectin
781	1069	NM_022402	g	ribosomal protein P0 (Arbp), mRNA. Length = 1046 Rattus norvegicus ferritin light chain 1 (FtI1), mRNA.	acidic ribosomal protein P0
	8211	NM_022500 .	j.n.s	light chain 1 (Fil1), mRNA. Length = 552 Rattus norvegicus ferritin light chain 1 (Fil1), mRNA.	ferritin light chain 1
782	8212	NM_022500	n,s	Length = 552 Rattus norvegicus cytochrome c oxidase	ferritin light chain 1
	6815		s	Rattus norvegicus ribosomal protein L36 (Rpl36), mRNA.	cytochrome c oxidase subunit VIIa
	4259 1611		g,w	Length = 364  Rattus norvegicus survival motor neuron (Smn), mRNA.	ribosomal protein L36
	2236	NM_022509 NM_022512		Rattus norvegicus short chain acyl-coenzyme A dehydrogenase (Acads),	short chain acyl-coenzyme A
	3026	NM 022512		Rattus norvegicus ribosomal protein L27 (Rpl27), mRNA.	dehydrogenase ribosomal protein L27

TABLE 1: S	UMMARY				Ally, Docks) No. 44921-6939 Dos. No. 17933
Scipence ID No.	ldentifler	GonBank Ace/ Rof. Son ID	Model Gode	Geno Namo	Uninano Gluster Tilla
			harries de la	Rattus norvegicus ribosomal	
				protein L27 (Rpl27), mRNA.	
1787	3027	NM_022514	a,q,r,aa	Length = 463 Rattus norvegicus ribosomal	ribosomal protein L27
				protein L24 (Rpl24), mRNA.	
1788	2696	NM_022515	a,d	Length = 541	ribosomal protein L24
			1	Rattus norvegicus ribosomal	
1788	2697	NM_022515	n,w,aa	protein L24 (Rpl24), mRNA. Length = 541	ribosomal protein L24
		THE SECOND	1	Rattus norvegicus	1
			1	polypyrimidine tract binding	1
1789	3900	NM 022516	h	protein (Ptb), mRNA. Length = 2697	
1/09	3900	NM_022516	In	Rattus norvegicus ADP-	polypyrimidine tract binding protei
			1	ribosylation factor 1 (Arf1),	
1790	4151	NM_022518	0	mRNA. Length = 900	ADP-ribosylation factor 1
				Rattus norvegicus omithine	
1791	4242	NM 022521	c	aminotransferase (Oat), mRNA. Length = 1938	ornithine aminotransferase
	7676	THE OZZUZI	ř	Rattus norvegicus platelet	Contraction and Contraction and
				endothelial tetraspan antigen	
1792	4412			3 (Cd151), mRNA. Length =	platelet endothelial tetraspan antig
1792	4412	NM_022523		1668 Rattus norvegicus	3
				plasmolipin (Z49858),	
1793	6641	NM_022533	General	mRNA. Length = 1475	plasmolipin
			1	Rattus norvegicus cyclophilin	
1794	8097	NM 022536	a	B (Ppib), mRNA. Length = 840	cyclophilin B
	0007	VAIII_GEEGGG	-	Rattus norvegicus	C) CICCOPITION C
		1		phosphatidate	
				phosphohydrolase type 2	
1795	8597	NM_022538	c,r,u	(Ppap2), mRNA. Length =	phosphatidate phosphohydrolase t
1133	0001	WW_022330	C.1.0	Rattus norvegicus	2
				phosphatidate	
				phosphohydrolase type 2	
1795	8598	NM 022538		(Ppap2), mRNA. Length = 871	phosphatidate phosphohydrolase t
1	0000		-	<u> </u>	
				Rattus norvegicus small zinc	
				finger-like protein DDP2	
796	9296	NM_022541	•	(Ddp2), mRNA. Length = 494 Rattus norvegicus omithine	small zinc finger-like protein DDP2
				decarboxylase antizyme	
				inhibitor (Oazi), mRNA.	ornithine decarboxylase antizyme
797	21063	NM_022585		Length = 4269	inhibitor
- 1				Rattus norvegicus telomerase protein	
				component 1 (Tlp1), mRNA.	
799	20781	NM_022591	z .	Length = 8216	telomerase protein component 1
				Rattus norvegicus	
800	20803	NM 022592		transketolase (Tkt), mRNA. Length = 2098	transketolase
-	20003	14M 022392		Rattus norvegicus enoyl	in an ion or ion as e
				hydratase-like protein,	
			j	peroxisomal (Ech1), mRNA.	encyl hydratase-like protein,
801	20925	NM_022594			peroxisomal
				Rattus norvegicus cathepsin   B (Ctsb), mRNA. Length =	
802	20944	NM_022597			cathepsin B
		1		Rattus norvegicus	
				synaptojanin 2 binding	
				protein (Synj2bp), mRNA.	

TABLE 1:	Summary			100	Any, Dockel No. 44920-53 Doc. No. 1779
Service Course In the	id multor	GenBants Acal Rof. Soc 10	Model Socio	Gono Namo	Unigrano Giretar Title
				Rattus norvegicus Testis- specific histone 2b (Th2b),	ESTs, Highly similar to 050620
1804	2250	NM_022643	General	mRNA. Length = 470	histone H2B [R.norvegicus]
			1	Rattus norvegicus ribosomal protein S14 (Rps14), mRNA.	
1805	17567	NM_022672	a,y	Length = 492	ribosomal protein S14
1806	17661	NM_022674	bb	Rattus norvegicus H2A histone family, member Z (H2afz), mRNA, Length = 811	H2A histone family, member Z
1807	24563	NM_022676	b	Rattus norvegicus protein phosphatase 1, regulatory (inhibitor) subunit 1A (Ppp1r1a), mRNA. Length = 619 Rattus norvegicus protein	protein phosphatase 1, regulato (inhibitor) subunit 1A
1807	24564	NM 022676	b,x	phosphatase 1, regulatory (inhibitor) subunit 1A (Ppp1r1a), mRNA. Length = 619	protein phosphatase 1, regulato (inhibitor) subunit 1A
				Rattus norvegicus germinal	
1808	20506	NM 022686		histone H4 gene (Hist4), mRNA. Length = 377	germinal histone H4 gene
				Rattus norvegicus preoptic regulatory factor-1 (Porf1),	
1809	20508	NM_022688	9	mRNA. Length = 689	preoptic regulatory factor-1
				Rattus norvegicus p105 coactivator (U83883),	
1810	17586	NM_022694	k .	mRNA. Length = 3166	p105 coactivator
				Rattus norvegicus ribosomal protein L28 (Rpl28), mRNA.	
1811	17730	NM_022697	a ,	Length = 466	ribosomal protein L28
		1		Rattus norvegicus ribosomal protein L28 (Rpl28), mRNA.	
1811	17729	NM_022697	g i	Length ≈ 466	ribosomal protein L28
				Rattus norvegicus crp-ductin (Crpd), mRNA, Length =	
1812	154	NM_022849	t .	4344	crp-ductin
1813	127	NM 022855	h	Rattus norvegicus casein kinase 1 gamma 3 isoform (Csnk1g3), mRNA. Length = 2547	
1813	12/	NM_022855		Rattus norvegicus HNF-	casein kinase 1 gamma 3 isofon
				3/forkhead homolog-1 (Hfh1), mRNA. Length =	
1814	152	NM_022858		1760	HNF-3/forkhead homolog-1
				Rattus norvegicus tricarboxylate carrier-like protein (Loc65042), mRNA.	
1816	18101	NM_022948	1	Length = 2699 Rattus norvegicus tricarboxylate carrier-like protein (Loc65042), mRNA.	tricarboxylate carrier-like protein
1816	18103	NM_022948	u .	Length = 2699	tricarboxylate carrier-like protein
				Rattus norvegicus putative protein phosphatase 1 nuclear targeting subunit (Ppp1r10), mRNA. Length =	putative protein phosphatase 1
1817	21491 .	NM_022951		4131 Rattus norvegicus	nuclear targeting subunit

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1	THE RESERVE				Ally, Docket No. 4921- Doc. No. 17
Sequence 10 No.		GenBank Age/ Roft Son ID	Modal Godo	Gorro Marmo	Unicene Civeter Title
1819	9286	NM_023027	t,w	Rattus norvegicus tRNA selenocysteine associated protein (Secp43), mRNA. Length = 864	tRNA selenocysteine associat
1820	23215	NM 023102	z	Rattus norvegicus casein kinase 1 gamma 2 isoform (Csnk1g2), mRNA. Length = 1572	casein kinase 1 gamma 2 isofi
1821	21238	NM_024125	cc, General	Rattus norvegicus Liver activating protein (LAP,also NF-IL6, nuclear factor-IL6, previously designated TCF5 (Cebpb), mRNA, Length ≈ 1408	
1821	21239	NM_024125	cc, General	Rattus norvegicus Liver activating protein (LAP,also NF-IL6, nuclear factor-IL6, previously designated TCF5) (Cebpb), mRNA. Length = 1408	
1822	353	NM_024127	í,n, General	Rattus norvegicus DNA- damage-inducible transcript 1 (Gadd45a), mRNA. Length = 711	DNA-damage-inducible transc
1822	354	NM 024127	í,n, General	Rattus norvegicus DNA- damage-inducible transcript 1 (Gadd45a), mRNA. Length = 711	DNA-damage-inducible transc
1822	352	NM 024127	h,General	Rattus norvegicus DNA- damage-inducible transcript 1 (Gadd45a), mRNA. Length = 711	DNA-damage-inducible transc
1823	17227	NM_024131	×	Rattus norvegicus D- dopachrome tautomerase (Ddt), mRNA. Length = 628	D-dopachrome tautomerase
1824	1598	NM_024134		Rattus norvegicus DNA- damage inducible transcript 3 (Ddit3), mRNA. Length = 806	DNA-damage inducible transcr
1825	1162	NM 024153	d	Rattus norvegicus adrenodoxin reductase (Fdxr), mRNA. Length = 1786	adrenodoxin reductase
1826	7863	NM_024156	c	Rattus norvegícus annexin VI (Anxa6), mRNA. Length = 2739	Rattus norvegícus mRNA for H transporting ATPase, complete
1827	22079	NM_024157	×	Rattus norvegicus complement factor I (Cfi), mRNA. Length = 2021	complement factor I
1828	16476	NM_024162	General	Rattus norvegicus heart fatty acid binding protein (Fabp3), mRNA. Length = 666 Rattus norvegicus heat	heart fatty acid binding protein
1829	17765	NM_024351		shock 70kD protein 8 (Hspa8), mRNA. Length = 2073	Heat shock cognate protein 70
1830	8879	NM 024360	h	Rattus norvegicus hairy and enhancer of split 1, (Drosophila) (Hes1), mRNA. : Length = 1453	hairy and enhancer of split 1, (Drosophila)

TABLE 18 A	SUMMARY				Athy, Dockot No. 43921-59990 Doc. No. 179989
Sequence ID No	Mantiflac	Gerbark Activ		Como Marrie	Universe Cluster Title
			-	Rattus norvegicus	
				heterogeneous nuclear inbonucleoproteins	
	İ			methyltransferase-like 2 (S.	heterogeneous nuclear
			l	cerevisiae) (Hrmt1l2),	ribonucleoproteins methyltransferas
1831	20772	NM_024363	×	mRNA. Length = 1201 Rattus norvegicus 3-hydroxy	like 2 (S. cerevisiae)
				3-methylglutaryl CoA lyase	
			l.	(Hmgcl), mRNA. Length =	L
1832	2812	NM_024386	¢	Rattus norvegicus heme	3-hydroxy-3-methylgiutaryl CoA lyas
			1	oxygenase-2 non-reducing	
1833	335	NM 024387	ļ	isoform (Hmox2), mRNA. Length = 1815	heme oxygenase-2 non-reducing isoform
1033	1335	NM_024367	j.y	Rattus norvegicus immediate	
	İ		1	early gene transcription	
1834	21	NM 024388	cc	factor NGFI-8 (Nr4a1), mRNA, Length = 2488	immediate early gene transcription factor NGFI-B
1034	121	NW_024300	-	Rattus norvegicus immediate	
	i		ļ	early gene transcription	
1834	22	NM 024388	cc	factor NGFI-8 (Nr4a1), mRNA. Length = 2488	immediate early gene transcription factor NGFI-B
		1111_02 1000	-	Rattus norvegicus	Today Horre
			ŀ	peroxisomal multifunctional	
1836	9929	NM 024392	r	enzyme type II (Hsd17b4), mRNA. Length = 2535	peroxisomal multifunctional enzyme type II
				Rattus norvegicus ATP-	77
				binding cassette, sub-family A (ABC1), member 2	
				(Abca2), mRNA, Length =	ATP-binding cassette, sub-family A
1837	3582	NM_024396	aa	8040	(ABC1), member 2
				Rattus norvegicus mitochondrial aconitase	
				(nuclear aco2 gene) (Aco2),	mitochondrial aconitase (nuclear aco
1838	19993	NM_024398	e,p,s,aa	mRNA. Length = 2744 Rattus norvegicus	gene)
		l		aspartoacylase (Aspa),	
1839	10789	NM_024399	0	mRNA. Length = 1552	aspartoacylase
				Rattus norvegicus a disintegrin and	
				metalloproteinase with	
				thrombospondin motifs 1	a disintegrin and metalloproteinase
1840	22626	NM 024400	cc, General	(ADAMTS-1) (Adamts1), mRNA. Length = 4878	with thrombospondin motifs 1 (ADAMTS-1)
			-		
				Rattus norvegicus activating transcription factor ATF-4	
1841	13633	NM 024403	g,General		activating transcription factor ATF-4
				Rattus norvegicus activating transcription factor ATF-4	
1841	13634	NM_024403			activating transcription factor ATF-4
				Rattus norvegicus RNA	
				binding protein p45AUF1 (Hnrpd), mRNA, Length =	
1842	23387	NM_024404	b,General	1240	RNA binding protein p45AUF1
				Rattus norvegicus	
				aminolevulinic acid synthase 1 (Alas1), mRNA. Length =	
843	21038	NM_024484	h Į	2052	aminolevulinic acid synthase 1
				Rattus norvegicus Glutathione peroxidase 1	
				(Gpx1), mRNA. Length =	
844	1853	NM_030826			ESTs,Glutathione peroxidase 1

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TABLES: 6	A 1800			and a	Affly, Doaket No. 4/1921-51/1977 Dos. No. 179389/
Soquenco 10 Mo:	realiter	GooBankAce/ Rof. Scopli	Model Gode	Gong Namo	Uniterior Tito
				Rattus norvegicus	
1845		4114 000007		glycoprotein 330 (Lrp2),	
1845	15111	NM_030827	e ,General	mRNA. Length = 15,438 Rattus norvegicus	glycoprotein 330
				glycoprotein 330 (Lrp2),	
1845	15112	NM_030827	y.z	mRNA. Length = 15,438	glycoprotein 330
	1	1		Rattus norvegicus glycoprotein 330 (Lrp2).	
1845	15110	NM 030827	General	mRNA. Length = 15,438	glycoprotein 330
				Rattus norvegicus kidney	
		1		specific organic anion transporter (Slc21a4),	kidney specific organic anion
1846	808	NM 030837	k,m	mRNA. Length = 2772	transporter
				Rattus norvegicus islet cell autoantigen 1, 69 kDa (Ica1)	
1847	4057	NM 030844	k .	mRNA. Length = 2094	islet cell autoantigen 1, 69 kDa
				Rattus norvegicus gro	
1848	1221	NM_030845	1	(Gro1), mRNA. Length = 929	gro
	1			Rattus norvegicus epithelial membrane protein 3 (Emp3),	
1849	21509	NM_030847	x	mRNA. Length = 737	epithelial membrane protein 3
				Rattus norvegicus pyruvate	
				dehydrogenase kinase 2 subunit p45 (PDK2) (Pdk2),	pyruvate dehydrogenase kinase 2
1850	1928	NM_030872	v	mRNA. Length = 2207	subunit p45 (PDK2)
		-		Rattus norvegicus profilin II	
1851	17342	NM 030873		(Pfn2), mRNA. Length ≈ 1966	profilin II
1001	17342	14W_030873		Rattus norvegicus	promit it
				Angiotensin II receptor, type	
1852	24648	NM 030985		1 (AT1A) (Agtr1a), mRNA. Length = 1450	Angiotensin II receptor, type 1 (AT1A)
1002	24040	NW_030803		Rattus norvegicus	Algiotensiii ii leceptoi, type 1 (ATTA)
	1			Angiotensin II receptor, type	
4050	25453	NIA 02000E	General	1 (AT1A) (Agtr1a), mRNA.	
1852	125453	NM_030985		Length = 1450 Rattus norvegicus Guanine	
				nucleotide-binding protein	
				beta 1 (Gnb1), mRNA.	Guanine nucleolide-binding protein
1853	21802	NM_030987		Length = 2837 Rattus norvegicus aldo-keto	beta 1
				reductase family 1, member	
				A1 (aldehyde reductase)	
1854	23109	NM 031000		(Akr1a1), mRNA. Length = 1124	aldo-keto reductase family 1, member A1 (aldehyde reductase)
1004	23109	NM_031000		Rattus norvegicus 4-	AT (alderlyde reductase)
			1	aminobutyrate	
1855	134	NM 031003		aminotransferase (Abat),	
1000	134	NM_031003		mRNA. Length = 1726 Rattus norvegicus	4-aminobutyrate aminotransferase
	1			angiotensin II type-1	
				receptor (Agtr1), mRNA.	
1856	25461	NM_031009		Length = 2156 Rattus norvegicus	angiotensin II type-1 receptor
				arachidonate 12-	
	I			lipoxygenase (Alox12),	
1857	1845	NM_031010		mRNA. Length = 2048 Rattus norvegicus	arachidonate 12-lipoxygenase
				arachidonate 12-	
			- 1	ipoxygenase (Alox12),	
1857	25517 ,	NM_031010			arachidonate 12-lipoxygenase
				Rattus norvegicus p38 mitogen activated protein	
			- 1	kinase (Mapk14), mRNA.	
1858	16562	NM_031020		ength = 3132	p38 mitogen activated protein kinase

TRABLE 1: 8	EFFORDON TREE	100 TO 10	HALL SHARE	. 7	Office (Specified Nie Access)
UASSES US 6	Chilinasy				Ally, Docket No. 43321- Doc, No. 47
Seguence ID No.	licantificar	GenBank Ace! Ref. Seq ID	Model Gode	Cana Namo	Unipers Chester 7116
				Rattus norvegicus casein kinase II beta subunit	
			1	(Csnk2b), mRNA. Length =	
1859	1480	NM_031021	f	1964 Rattus norvegicus drebrin A	casein kinase II beta subunit
				(Dbn1), mRNA. Length =	1
1860	1719	NM_031024	n	2697 Rattus norvegicus cyclin G-	drebrin A
		i	1	associated kinase (Gak),	
1861	1350	NM_031030	h	mRNA. Length = 4454 Rattus norvegicus L+	cyclin G-associated kinase
				arginine: glycine	
1862				amidinotransferase (Gatm),	
1002	16775	NM_031031	General	mRNA. Length = 2260 Rattus norvegicus guanine	L-arginine: glycine amidinotrar
			1	nucleotide binding protein (C	
1863	691	NM 031034	w	protein) alpha 12 (Gna12), mRNA. Length = 1423	guanine nucleotide binding pro protein) alpha 12
				Rattus norvegicus GTP+	
				binding protein (G-alpha-i2) (Gnai2), mRNA. Length =	
1864	15886	NM_031035	z	1748	GTP-binding protein (G-alpha-
			1	Rattus norvegicus histamine N-methyltransferase (Hnmt),	
1866 .	3608	NM_031044	k,General	mRNA. Length = 1225	histamine N-methyltransferase
	- 0.0			Rattus norvegicus histamine N-methyltransferase (Hnmt),	
1866	3610	NM_031044	d,General	mRNA. Length = 1225	histamine N-methyllransferase
			1	Rattus norvegicus mecrophage migration	
				inhibitory factor (Mif), mRNA	
1867	15137	NM_031051	s	Length = 551 Rattus norvegicus matrix	macrophage migration inhibitor
				metalloproteinase 14,	
				membrane-inserted (Mmp14), mRNA, Length =	matrix metalloproteinase 14.
1868	514	NM_031056	General	2448	membrane-inserted
				Rattus norvegicus	
				methylmalonate semialdehyde	
				dehydrogenase gene (Mmsdh), mRNA. Length =	
1869 1	17269	NM_031057	General	2059	methylmalonate semialdehyde dehydrogenase gene
				Rattus norvegicus ribosomal	
1870	11849	NM_031065	a	protein L10a (Rpl10e), mRNA. Length = 710	ribosomal protein L10a
				Rattus norvegicus	
1871	1855	NM_031074	h	nucleoporin 98 (Nup98), mRNA. Length = 3237	nucleoporin 98
				Rattus norvegicus	
				phosphatidylinositol 4-kinase (Pik4cb), mRNA. Length =	
1872	4683	NM_031083	d	3205	phosphatidylinositol 4-kinase
				Rattus norvegicus -ral simian leukemia viral oncogene	
				homolog A (ras related)	
1873	15202	NM_031093	3	(Rala), mRNA. Length = 952: Rattus norvegicus -ral simian	#NAME?
				leukemia viral oncogene	
873	15201	NM 031093	a,n	homolog A (ras related) (Rala), mRNA. Length = 952	#NAME?
	-	1		Rattus norvegicus ribosomal	POTONIE I
874	12639	NM 031099		protein L5 (Rpl5), mRNA.	

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TABLE 1:	SUMMARY				Ally, Dookel No. 415 Doc. Me
Seguence	· 中国	Genfants Acci	Mortal	16. 14	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
ID NO.04	Udpatifor	Rof Saglio	Gode	Genre Name	Unigene Cluster Title
1875	20812	NM_031100	а	Rattus norvegicus ribosom protein L10 (Rpl10), mRNA Length ≈ 769	ribosomal protein L10
1876	16938	NM_031103	w	Rattus norvegicus ribosom protein L19 (Rpl19), mRNA Length = 703	ribosomal protein L19
1877	19268	NM_031104		Rattus norvegicus ribosoma protein L22 (Rpt22), mRNA Length = 465	
			1	Rattus norvegicus mRNA fo ribosomal protein S9 (Rps9	r I
1878	16929	NM_031108	q	mRNA. Length = 688	mRNA for ribosomal prote
1879	10878	NM_031110	q,bb	protein S11 (Rps11), mRNA Length = 534	
1880	19162	NM_031111	aa	Rattus norvegicus ribosoma protein S21 (Rps21), mRNA Length = 359	11
1880	19161	NM_031111	a,bb	Rattus norvegicus ribosoma protein S21 (Rps21), mRNA Length = 35g	
1881	24615	NM_031112	a,y	Rattus norvegicus ribosoma protein S24 (Rps24), mRNA Length = 466	1
				Rattus norvegicus ribosoma protein S27a (Rps27a),	
1882	20839	NM_031113	a.q	mRNA. Length = 552 Rattus norvegicus S-100 related protein, clone 42C	nibosomal protein S27a
1883	19040	NM_031114	I,m, General	(S100A10), mRNA. Length = 573	S-100 related protein, clon
1884	16349	NM_031115	u	Rattus norvegicus secretin receptor (Sctr), mRNA. Length = 1796	secretin receptor
1885	14970	NM_031127	General	Rattus norvegicus sulfite oxidase (Suox), mRNA. Length = 1777	
	1.4910	Jim_931121	Seneral	Rattus norvegicus thyroid hormone receptor alpha (Thra1), mRNA. Length =	suffite oxidase
1886	1814	NM_031134	n,q	2460 Rattus norvegicus TGFB	thyroid hormone receptor
1887	13359			inducible early growth response (Tieg), mRNA.	
106/	13359	NM_031135	General	Rattus norvegicus thymosin beta-4 (Tmsb4x), mRNA.	TGFB inducible early growt
1888	15052	NM_031136	a	Length = 686 Rattus norvegicus thymosin	thymosin beta-4
1888	19359	NM_031136 .	а	beta-4 (Tmsb4x), mRNA. Length = 686	EST
1889	15185	NM_031140	General	Rattus norvegicus vimentin (Vim), mRNA. Length = 1796,	vimentin
				Rattus norvegicus cytoplasmic beta-actin (Actx), mRNA. Length =	
1890	21625	NM_031144	а,е	1128 Rattus norvegicus RAB11a,	cytoplasmic bela-actin
1891	238	NM_031152 ,	bb	member RAS oncogene family (Rab11a), mRNA. Length = 895	RAB11a, member RAS once family
				Rattus norvegicus RAB11a, member RAS oncogene	

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	SUMMARY				Anjy, Dockel No. 44921-50191 Doc. No. 179339
Acquarac ID No.	f (lentifier	GenBank Acc/ Rd/ Seg(B)	Medal Gode	Genre Neumo	Unigene Gluster VIIIe
				Rattus norvegicus ubiquitin- conjugating enzyme E2D 3 (homologous to yeast UBC4/5) (Ube2d3), mRNA.	ubiquitin-conjugating enzyme E2D
1892	15277	NM_031237	9	Rattus norvegicus acyl-CoA thicesterase 1, cytosolic	
1893	18083	NM_031315	9	(Cte1), mRNA. Length = 1591 Rattus norvegicus acyl-CoA	R.norvegicus mRNA for mitochondo very-long-chain acyl-CoA thioesters R.norvegicus mRNA for mitochondo
1893	1858	NM_031315	۹	thioesterase 1, cytosolic (Cte1), mRNA. Length = 1591	very-long-chain acyl-CoA thioesterase,acyl-CoA thioesterase cytosolic
1894	15663	NM_031318	General	Rattus norvegicus t-complex testis expressed 1 (Tctex1), mRNA. Length = 698 Rattus norvegicus prolyl	It-complex testis expressed 1
1895	1422	NM_031324	bb, General	endopeptidase (Prep), mRNA. Length = 2743 Rattus norvegicus UDP-	prolyl endopeptidase
1896	18597	NM_031325	g,bb	glucose dehydrogeanse (Ugdh), mRNA. Length = 2318 Rattus norvegicus cysteine	UDP-glucose dehydrogeanse
1897	11259	NM_031327	l,cc, General	rich protein 61 (Cyr61), mRNA. Length = 1871 Rattus norvegicus	cysteine rich protein 61
1898	4235	NM_031330	General	heterogeneous nuclear ribonucleoprotein A/B (Hnrpab), mRNA. Length = 3061	heterogeneous nuclear ribonucleoprotein A/B
				Rattus norvegicus proteasome (prosome, macropaln) 26S subunit, non ATPase,4 (Psmd4), mRNA.	proteasome (prosome, macropain)
1899	3519	NM_031331 NM_031334	i,m cc	Length = 1334 Rattus norvegicus E- cadherin (Cdh1), mRNA. Length = 4396	26S subunit, non-ATPase,4 E-cadherin
1901	20698	NM 031357	ь	Rattus norvegicus ceroid- lipofuscinosis, neuronal 2 (Cln2), mRNA. Length = 2485	
1903	634	NM_031509	n	Rattus norvegicus Glutathione-S-transferase, alpha type (Ya) (Gsta1), mRNA. Length = 1178	Glutathione-S-transferase, alpha typ (Ya)
1903	25525	NM 031509		Rattus norvegicus Glutathione-S-transferase, alpha type (Ya) (Gsta1), mRNA. Length = 1178	Glutathione-S-transferase, alpha type (Ya)
1903	25069	NM_031509	b,n,w	Rattus norvegicus Glutathione-S-transferase, alpha type (Ya) (Gsta1), mRNA. Length = 1178	
903	635	NM_031509	z	Rattus norvegicus Glutathione-S-transferase, alpha type (Ya) (Gsta1), mRNA. Length = 1178	Glutathione-S-transferase, alpha type (Ya)
904	848	NM_031517	, ]	Rattus norvegicus Met proto- oncogene (Met), mRNA. Length = 4189	Met proto-oncogene
905	1872	NM_031523		Rattus norvegicus Nerve growth factor, gamma polypeptide (Ngfg), mRNA. Length = 873	Nerve growth factor, gamma polypeptide

TABLES	SUMMARY				AND DOOLER NO. 44921 - Ros. No. 17
Sequence DNo.	(ජන <b>්</b> (මන්	Gor Bunk Accil Raf. Gorg ID	Modal Godo	Game Xarmo	Unigara Circiar Tila
				Rattus norvegicus Nerve growth factor, gamma	
1905	16245	NM_031523	a,d,u	polypeptide (Ngfg), mRNA. Length = 873	Rattus norvegicus (clone RSF kallikrein mRNA, 3' end
1905	16244	NM_031523	a	Rattus norvegicus Nerve growth factor, gamma polypeptide (Ngfg), mRNA. Length = 873	Rattus norvegicus (clone RSK kallikrein mRNA, 3' end
				Rattus norvegicus Protein phosphatase type 1 alpha, catalytic subunit (Ppp1ca),	Protein phosphatase type 1 al
1906	9370	NM_031527	w	mRNA. Length = 1392 Rattus norvegicus Small	catalytic subunit
1907	20448	NM 031530	Generat	inducible gene JE (Scya2),	C
1907	20440	NM_031530	General	mRNA. Length = 780 Rattus norvegicus Small	Small Inducible gene JE
1907	20449	NM 031530	General	inducible gene JE (Scya2), mRNA. Length = 780	Small inducible gene JE
				Rattus norvegicus Androsterone UDP- glucuronosyltransferase	
1908	14633	NM 031533		(Ugt2b2), mRNA. Length =	Androsterone UDP- glucuronosyltransferase
1909	16048	NM 031541	f	Rattus norvegicus CD36 antigen (collagen type I receptor, thrombospondin receptor)-like 1 (scavanger receptor class 8 type 1) (Cd36i1), mRNA, Length = 2497	CD36 antigen (collagen type I receptor, thrombospondin rece type 1)
1910	4011	NM 031543	c,q	Rattus norvegicus Cytochrome P450, subfamily 2e1 (ethanol-inducible) (Cyp2e1), mRNA. Length = 1624	Cytochrome P450, subfamily 2 (ethanol-inducible)
1910	4010	NM_031543	c,q	Rattus norvegicus Cytochrome P450, subfamily 2e1 (ethanol-inducible) (Cyp2e1), mRNA. Length = 1624	Cytochrome P450, subfamily 2 (ethanol-inducible)
1910	4012	NM 031543		Rattus norvegicus Cytochrome P450, subfamily 2e1 (ethanol-inducible) (Cyp2e1), mRNA. Length = 1624	Cytochrome P450, subfamily 2
	17012	U3 1043	4	Rattus norvegicus	(ethanol-inducible)
1911	28	NM_031546	General	Regucalcin (Rgn), mRNA. Length = 1605	Regucalcin
1912	24640	NM_031548	h,cc	Rattus norvegicus Sodium channel, nonvoltage-gated 1, alpha (epithelial) (Scnn1a), mRNA. Length = 3081	Sodium channel, nonvoltage-galpha (epithelial)
1913	17149	NM 031549		Rattus norvegicus Transgelin (Smooth muscle 22 protein) (Tagin), mRNA. Length = 1186	Transgelin (Smooth muscle 22 protein)
				Rattus norvegicus Transgelin (Smooth muscle 22 protein) (Tagin), mRNA. Length =	Transgelin (Smooth muscle 22
1913	17151	NM 031549	x	1186	protein)

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TABLE 0: E	EUMINARY		1. A. A. A.		Ally, Dockel No. 4494-6 Doc. No. 17
Signine DVoc:	Hentifier	Someon, According Ref. See (D)	Modell Gode	Genno Mannie	Unitgana Chuster Titta
1915	15411		d.r	Rattus norvegicus Camitine palmitoyltransferase 1 alpha liver isoform (Cpt1a), mRNA	Carniline palmitoyltransferase
1916	16164	NM_031559 NM_031563	a.y	Length = 4377 Rattus norvegicus Y box protein 1 (Ybx1), mRNA. Length = 1489	liver isoform Y box protein 1
1917	9621	NM 031570	bb	Rattus norvegicus ribosomal protein S7 (Rps7), mRNA. Length = 650	ribosomal protein S7
1917	9620	NM_031570	w,bb	Rattus norvegicus ribosomal protein S7 (Rps7), mRNA. Length = 650	ribosomal protein \$7
				Rattus norvegicus Phosphorylase kinase, gamma 1 (Phkg1), mRNA.	
1918	546	NM_031573	f	Length = 1388 Rattus norvegicus P450	phosphorylase kinase gamma
1919	1921	NM_031576	f		P450 (cytochrome) oxidoreduc
1919	1920	NM_031576	r	Rattus norvegicus P450 (cytochrome) oxidoreductase (Por), mRNA. Length = 2441	P450 (cytochrome) oxidoreduc
1920	24219	NM 031579	ì,General	Rattus norvegicus protein tyrosine phosphatase 4a1 (Ptp4a1), mRNA. Length = 2638	protein tyrosine phosphatase 4
1920	24219	NM_0315/9	i,General	Rattus norvegicus solute carrier family 22, member 2 (Slc22a2), mRNA. Length =	protein tyrosine prospnatase 4
1921	770	NM_031584	k,x	2152 Rattus norvegicus neuregulin 1 (Nrg1), mRNA, Length =	solute carrier family 22, member potassium channel, subfamily l
1922	18008	NM_031588	сс	3272 Rattus norvegicus neuregulin 1 (Nrg1), mRNA, Length =	member 3 potassium channel, subfamily I
1922	18005	NM_031588	cc,	3272 Rattus norvegicus neuregulin 1 (Nrg1), mRNA. Length =	member 3 potassium channel, subfamily l
1922	18011	NM_031588	General	3272 Rattus norvegicus proteasome (prosome, macropain) 26S subunit,	member 3
1923	1584	NM_031595	k .	Rattus norvegicus	proteasome (prosome, macrop 26S subunit, ATPase 3
1924	24235	NM_031614	v		thioredoxin reductase 1
1924	24234	NM 031614	General	Rattus norvegicus thioredoxin reductase 1 (Txnrd1), mRNA. Length = 3360	thioredoxin reductase 1
		051014	Saleral	Rattus norvegicus nuclear receptor subfamily 1, group	nuclear receptor subfamily 1, gr
1925	1639	NM_031627	j.l,v		member 3

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TABLE 1					Ally, Dockel No. 44921-600 Doc. No. 1793
Sequence		GentBruk Acti Ref. Seq:TD	Model	\$170 B	STORY OF STREET
Dúo		Ref. Seg ID	endo	Gene Namo	Unitypho Cluster Title
				Rattus norvegicus mitogen activated protein kinase	
				kinase 2 (Map2k2), mRNA.	mitogen activated protein kinase
1927	20766	NM_031643	k,l,m,	Length = 1182	kinase 2
1929	1993	NM 031655	General	Rattus norvegicus latexin (Lxn), mRNA. Length = 1087	latexin
				Rattus norvegicus cyclic AMP phosphoprotein, 19kD (Arpp19-pending), mRNA.	
1930	2057	NM_031660	е	Length = 339 Rattus norvegicus solute	cyclic AMP phosphoprotein, 19kl
1931	15039	NM_031672	k,General	carrier family 15 (H+/peptide transporter), member 2 (Slc15a2), mRNA. Length =	solute carrier family 15 (H+/pepti
	1	1	1,000,000	Rattus norvegicus	
				hydroxyacyl-Coenzyme A dehydrogenase, type II	
	1	1		(Hadh2), mRNA. Length =	hydroxyacyl-Coenzyme A
1932	15175	NM_031682	bb	917 Rattus norvegicus golgi	dehydrogenase, type II
				SNAP receptor complex	
1933	1004	NM 031685	l,	member 2 (Gosr2), mRNA. Length = 683	golgi SNAP receptor complex me
4004	10707			Rattus norvegicus ublquitin A 52 residue ribosomal protein fusion product 1 (Uba52),	ubiquitin A-52 residue ribosomal
1934	19727	NM_031687	a,q,s	mRNA. Length = 467 Rattus norvegicus claudin 3	protein fusion product 1
	L			(Cldn3), mRNA. Length =	
1935	20404	NM_031700	j.r,y	1192 Rattus norvegicus claudin 3	claudin 3
		l		(Cidn3), mRNA. Length =	
1935	20405	NM_031700	1,0	1192 Rattus norvegicus	claudin 3
				dihydropyrimidinase (Dpys),	
1936	811	NM_031705	General	mRNA. Length = 2091 Rattus norvegicus	dihydropyrimidinase
			o,v,bb,	dihydropyrimidinase (Dpys),	
1936	812	NM_031705	General .	mRNA. Length = 2091 Rattus norvegicus ribosomal	dihydropyrimidinase
1937	16204	NM_031706	q,bb	protein S8 (Rps8), mRNA. Length = 696	ribosomal protein S8
	1			Rattus norvegicus ribosomal	
1937	16205	NM 031706	а,у	protein S8 (Rps8), mRNA. Length = 696	ribosomal protein S8
	1			Rattus norvegicus	
				glycoprotein 110 (Gp110- pending), mRNA. Length =	
1938	24081	NM_031708	m	1444	glycoprotein 110
1939	16918	NM 031709	a,q	Rattus norvegicus ribosomal protein S12 (Rps12), mRNA. Length = 499	ribosomal protein S12
	1				THE STATE OF THE S
				Rattus norvegicus PDZ. domain containing 1 (Pdzk1).	
1940	1081	NM_031712		mRNA. Length = 2005	PDZ domain containing 1
				Rattus norvegicus phosphofructokinase, muscle	
			b,n,u,cc,	(Pfkm), mRNA. Length =	
1941	1340	NM_031715	General	2757 Rattus norvegicus alcohol	phosphofructokinase, muscle
	1			ratios nurvegicus aiconol	
				dehydrogenase family 3, subfamily A2 (Aldh3a2),	alcohol dehydrogenase family 3.

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				-127-	
TABLE 1	SUMMARY	7	1		Atty. Dooket No. 44921-6039 Res. No. 17986
Siquito Diro.	O Lideniffic	ConBonts Acc Roll Seq 10	Model Godo	Chance Marmo	Unigere Cluster Ville
1943	10241	NM_031740	d	Rattus norvegicus UDP- Gal: betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 6 (B4galt6), mRNA. Length = 5729	UDP-Gal:betaGlcNAc beta 1,4-galactosyltransferase, polypeptide
1944				Rattus norvegicus solute carrier famíly 2 (facilitated glucose transporter), member 5 (Slc2a5), mRNA.	solute carrier family 2 (facilitated
	1214	NM_031741	1	Length = 2169 Rattus norvegicus solute carrier family 2 (facilitated glucose transporter), member 5 (Sic2a5), mRNA.	glucose transporter), member 5
1944	1215	NM_031741	<u> </u>	Length = 2169 Rattus norvegicus activated leukocyte cell adhesion molecule (Alcam), mRNA.	glucose transporter), member 5 activated leukocyte cell adhesion
1945	20724	NM_031753	h	Length = 2866 Rattus norvegicus platelet- activating factor acetylhydrolase beta subunit (PAF-AH beta) (Pafah1b1),	molecule  platelet-activating factor acetylhydrolese beta subunit (PAF-
1946	20753	NM_031763	h	mRNA. Length = 1233 Rattus norvegicus platelet- activating factor acetylhydrolase bete subunit (PAF-AH beta) (Pafah1b1),	platelet-activating factor acetylhydrolase beta subunit (PAF-
1946	20752	NM_031763	y	mRNA. Length = 1233 Rattus norvegicus rab acceptor 1 (prenylated) (Rabac1), mRNA. Length =	beta)
1947	14953	NM_031774	P	Rattus norvegicus guanine deaminase (Gda), mRNA,	rab acceptor 1 (prenylated)
1948	14184	NM_031776	t,General	Length = 1568 Rattus norvegicus guanine	guenine deeminase
1948	14185	NM_031776	General	deaminase (Gda), mRNA. Length = 1568 Rattus norvegicus NF-E2-	guanine deaminase
1949	1169	NM_031789	c	related factor 2 (Nfe2l2), mRNA. Length = 2307 Rattus norvegicus defensin	NF-E2-related factor 2
950	16155	NM_031810	d,z	beta 1 (Defb1), mRNA. Length = 416 Rattus norvegicus defensin	defensin beta 1
950	16156	NM_031810	d	beta 1 (Defb1), mRNA. Length = 416 Rattus norvegicus G protein-	defensin beta 1
1951	17194	NM_031814	z	coupled receptor kinase- associated ADP ribosylation factor GTPase-activating protein (GIT1) (Git1), mRNA. Length = 3236 Rattus norvegicus	G protein-coupled receptor kinase- associated ADP ribosylation factor GTPase-activating protein (GIT1)
952	17535	NM_031816	bb	retinoblastoma binding protein 7 (Rbbp7), mRNA. Length = 1947	retinoblastoma binding protein 7
953	2655	NM_031821	i,I,m,aa		serum-inducible kinase
954	10167	NM 031830	1 1	Rattus norvegicus reggie1-1 (Flot2), mRNA. Length = 2629	reppie1-1

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TABLE 1:	SUMMARY				ATTY Decket No. 43921-5
Scoperico DNo.		GonBank Acal Rof, Son III	Model Godo	Gono Namo	Dos. No. 179 Unitrana Chreter Titto
				Rattus norvegicus IgE	
1955	22321	NM_031832	o,t,u, General	binding protein (Lgals3), mRNA. Length = 948 Rattus norvegicus sulfotransferase family 1A, phenol-preferring, member 1	tgE binding protein
1956	4748	NM 031834	e,t	(Sult1a1), mRNA. Length =	minoxidil sulfotransferase
				Rattus norvegicus sutfotransferase family 1A, phenol-preferring, member 1 (Sult1a1), mRNA. Length =	
1956	4749	NM_031834	e,t	1227 Rattus norvegicus beta-	minoxidit sulfotransferase
1957	7914	NM_031835	e	alanine-pyruvate aminotransferase (AGT2), mRNA. Length = 2151	beta-alanine-pyruvale aminotransferase
1958	8385	NM_031836	h	Rattus norvegicus vascular endothelial growth factor (Vegf), mRNA. Length = 645 Rattus norvegicus vascular	vascular endothelial growth fac
1958	8384	NM_031836	h	endothelial growth factor (Vegf), mRNA. Length = 645 Rattus norvegicus ribosomal	vascular endothelial growth fac
1959	10268	NM_031838	a	protein S2 (Rps2), mRNA. Length = 819	ribosomal protein S2
				Rattus norvegicus ribosomal protein S2 (Rps2), mRNA.	
1959	10269	NM_031838	aa	Length = 819 Rattus norvegicus ribosomal	ribosomal protein S2
1959	10267	NM_031838	n,aa	protein S2 (Rps2), mRNA. Length = 819	nibosomal protein S2
1960	15077	NM_031841	ь	Rattus norvegicus stearoyl- CoA desaturase 2 (Scd2), mRNA. Length = 5055 Rattus norvegicus	slearoyl-CoA desaturase 2
1961	16726	NM_031855	×	Ketohexokinase (Khk), mRNA. Length = 1342	Ketohexokinase
1962	25802	NM_031969	a	Rattus norvegicus Calmodulin 1 (phosphorylase kinase, delta) (Calm1), mRNA. Length = 3513	Calmodulin 1 (phosphorylase ki delta)
1962	. 19191	NM_031969	c	Rattus norvegicus Calmodulin 1 (phosphorylase kinase, della) (Calm1), mRNA. Length = 3513	Calmodulin 1 (phosphorylase kii delta)
1962	19195	NM_031969	,	Rattus norvegicus Calmodulin 1 (phosphorylase kinase, delta) (Calm1), mRNA. Length = 3513	Calmodulin 1 (phosphorylase ki delta)
				Rattus norvegicus Calmodulin 1 (phosphorylase kinase, delta) (Calm1),	Calmodulin 1 (phosphorylase kii
1962	19190	NM_031969 .	р	mRNA. Length = 3513 Rattus norvegicus Heat shock 27 kDa protein (Hsp27), mRNA. Length =	delta)
1963	17734	NM 031970	v,General		ESTs,Heat shock 27 kDa proteir

TABLE 9: 8					Ally, Dockot No. 44221-2033 Doc. No. 1779339
Sequence DKo.	ldeniller	GenBenk Assu Roll StopilD	Model Godo	Gano Namo	THE REAL PROPERTY AND ADDRESS OF THE PERSON NAMED IN COLUMN TWO IN COLUM
1965	15470	NM_031978	,	Rattus norvegicus 26S proteasome, subunit p112 (PSMD1), mRNA. Length = 3089	26S proteasome, subunit p112
		1	1	Rattus norvegicus cerebellar Ca-binding protein, spot 35 protein (Calb1), mRNA.	cerebellar Ca-binding protein, spot
1966	18502	NM_031984	c	Length = 2280 Rattus norvegicus syntenin	protein
1967	19768	NM_031986	v,aa, General	(Sdcbp), mRNA. Length = 2077 Rattus norvegicus chimerin	syntenin
1968	723	NM_032084	,	(chimaerin) 2 (Chn2), mRNA Length = 1118	chimerin (chimaerin) 2
1969	17935	NM_032615	a	Rattus norvegicus membrane interacting protein of RGS16 (Mir16), mRNA. Length = 1203	membrane interacting protein of RGS16
1970 .	16831	NM_033095	n	Rattus norvegicus Crystallin, gamma polypeptide 4 (Crygd), mRNA. Length = 634	
1971	25468	NM_033234	c,z	Rattus norvegicus Hemoglobin, beta (Hbb), mRNA. Length = 620	
1971	25469	NM 033234	c	Rattus norvegicus Hemoglobin, beta (Hbb), mRNA. Length = 620	
1971	17832	NM_033234	c,p	Rattus norvegicus Hemoglobin, beta (Hbb), mRNA. Length = 620	Rat major beta-globin mRNA, complete cds
1971	17829	NM_033234	c,z	Rattus norvegicus Hemoglobin, beta (Hbb), mRNA. Length = 620	Rat major beta-globin mRNA, complete cds
1972	4723			Rattus norvegicus Malate dehydrogenase-like enzyme (Mdhi), mRNA. Length = 1266	Rattus norvegicus cytosolic malate dehydrogenase (Mdh) mRNA,
1972	1409		p.General	Rattus norvegicus Hydroxyacyl glutathione hydrolase (Hagh), mRNA. Length = 783	complete cds  Rattus norvegicus round spermatid protein RSP29 gene, complete cds
				Rattus norvegicus ATP- binding cassette, sub-family D (ALD), member 2 (Abcd2),	
1974	19998	NM_033352 5	General	Rattus norvegicus Kidney 1	PDZ domain containing 1
1975	1410	NM_052798	d j	(Kid1), mRNA. Length = 2563 Rattus norvegicus cytosolic	Rat zinc finger protein (kid-1) mRNA complete cds
1976	15028 ,	NM_052809		cysteine dioxygenase 1 (Cdo1), mRNA. Length = 1458	Rat cysteine dioxygenase mRNA, complete cds
1977	5176	NM 053297	u	Rattus norvegicus Pyruvate kinase 3 (Pkm2), mRNA. Length = 1973	Rat mRNA for pituitary pyruvate kinase
1978	7660	NM 053299		Rattus norvegicus ubiquitin D (Ubd), mRNA. Length = 684	ESTs, Weakly similar to polyubiquitir [R.norvegicus]
1979	5117 ,	NM_053310			Rattus norvegicus mRNA for Vesl-3, complete cds

TABLE 1:	SUMMARY				Ally, Docket No. 44921-5039 Doc. No. 17939
Sajunco DNo	identifier	GerBentk Ásol Ref. Seg (19	M000 9000	Gane Name	Udj. pri Guster Fillo
1981	17473	NM 053319	a,v	Rattus norvegicus dynein, cytoplasmic, light chain 1 (Pin), mRNA. Length = 505	Rattus norvegicus protein inhibitor neuronal nitric oxide synthase (PIN mRNA, complete cds
1301	11473	14m 003319	la,v	Rattus norvegicus insulin-lik, growth factor binding protein acid labile subunit (Igfals),	в
1982	25480	NM_053329	9	mRNA. Length = 1812	
1982	21977	NM_053329	у	Rattus norvegicus insulin-lik growth factor binding protein acid labile subunit (Igfals), mRNA, Length = 1812 Rattus norvegicus ribosomal	
1983	14926	NM_053330	r	protein L21 (Rpl21), mRNA. Length = 554	Rattus norvegicus ribosomal proteir L21 mRNA, complete cds
1983	14929	NM 053330	e,Genera	Rattus norvegicus ribosomal protein L21 (Rpl21), mRNA. Length = 554	Rattus norvegicus ribosomal proteir L21 mRNA, complete cds
1984	16407	NM_053332	c.e	Rattus norvegicus cubilin (intrinsic factor-cobalamin receptor) (Cubn), mRNA. Length = 10,872	Rattus norvegicus intrinsic factor-Bi receptor precursor (CUBILIN) mRN, complete cds
1985			l.	Rattus norvegicus regulator of G-protein signeling 19 (Rgs19), mRNA. Length = 1607	
1986	6154	NM_053341 NM_053356	p	Rattus norvegicus procollagen, type I, alpha 2 (Col1a2), mRNA. Length = 4474	regulator of G-protein signaling 19 procollagen, type I, alpha 2
1987	9215	NM 053374		Rattus norvegicus interferon gamma inducing factor binding protein (Igifbp), mRNA, Length = 626	interferon gamme inducing factor
1988	6416	NM_053380	General	Rattus norvegicus solute carrier family 34 (sodium phosphate), member 2 (Sic34a2), mRNA. Length = 3950	binding protein solule carrier family 34 (sodium phosphate), member 2
1989	19113	NM_053395		Rattus norvegicus small muscle protein, X-linked (Smpx), mRNA. Length = 892	Rattus norvegicus SMPX protein (Smpx) mRNA, complete cds
				Rattus norvegicus flavin- containing monooxygenase 3 (Fmo3), mRNA. Length =	
1990	2242	NM_053433	n,General	2037 Rattus norvegicus zinc finger protein 103 (Zfp103), mRNA.	flavin-containing monooxygenase 3
1991	5561	NM_053438	У	Length = 3258 Rattus norvegicus RAN, member RAS oncogene family (Ran), mRNA, Length	zinc finger protein 103
1992	14670	NM_053439	n,General	= 1064	RAN, member RAS oncogene family
1993	17102	NM_053440			superiorcervical ganglia, neural specific 10
1994	24762	NM_053442		Rattus norvegicus solute carrier family 8 (cationic amino acid transporter, y+	specific 10 solute carrier femily 8 (cationic emil acid transporter, y+ system), memb 7

TABLE 1: 8					Any, Dockol No. 43921-50397 Doc. No. 1793697
Seguence ID No.	(entitle)	ConBank Acel Rof. Scott	Medal Gode	Game Namo	Unigano Cluster III to
1995	8085	NM_053453	General	Rattus norvegicus regulator of G-protein signaling proteir 2 (Rgs2), mRNA. Length = 1629	regulator of G-protein signaling prote
1996	4622	NM_053463	d	Rattus norvegicus nucleobindin (Nucb), mRNA. Length = 2303	nucleobindin
1997	21866	NM_053472	p	Rattus norvegicus cytochrome c oxidase subunit IV isoform 2 precursor (CoxIV-2), mRNA. Length = 704	cytochrome c oxidase subunit IV isoform 2 precursor
				Rattus norvegicus protein tyrosine phosphatase type IVA, member 2 (Ptp4a2),	protein tyrosine phosphatase type
1998	9573	NM_053475	h	mRNA. Length = 1095 Rattus norvegicus DNA polymerase alpha subunit II (Pola2), mRNA. Length =	IVA, member 2
1999	16137	NM_053480	k	1836 Rattus norvegicus karyopherin (Importin) alpha	DNA polymerase alpha subunit II
2000	15556	NM_053483	у	2 (Kpna2), mRNA. Length = 1886 Rattus norvegicus calcium	karyopherin (importin) alpha 2
2001	16394	NM_053485	General	binding protein A6 (calcyclin) (S100a6), mRNA. Length = 291	calcium binding protein A6 (calcyclin)
				Rattus norvegicus peroxisomal membrane protein Pmp26p (Peroxin-11) (Pex11a), mRNA, Length =	peroxisomal membrane protein
2002	4290	NM_053487	j.y	1194 Rattus norvegicus	Pmp25p (Peroxin-11)
2004	18826	NM_053523	d	homocysteine-inducible, endoplasmic reticulum stress inducible, ubiquitin-like domain member 1 (Herpud 1), mRNA. Length = 1857	Rettus norvegicus SUP mRNA, complete cds
				Rattus norvegicus ATP- dependent, RNA helicase (Rok1), mRNA. Length =	Rattus norvegicus rROK1L mRNA for
2005	7764	NM_053525	aa 🕦	2175 Rattus norvegicus lysosomal- associated protein	ROK1-like protein, complete cds
2006	14199 .	NM_053538	c	transmembrane 5 (Laptm5), mRNA. Length = 1309 Rattus norvegicus	Rattus norvegicus gcd-10S mRNA, complete cds
2007 ;	1058	NM 053539	c,d	isopentenyl-diphosphate delta isomerase (Idi1), mRNA. Length = 1182	Rattus norvegicus isopentenyl diphosphate:dimethylallyl diphosphate isomerase mRNA, complete cds
2008	4327	NM_053563		Rattus norvegicus nuctear RNA helicase, DECD variant of DEAD box family (Ddxl), mRNA. Length = 1511	Rattus norvegicus nuclear RNA helicase mRNA, complete cds
				Rattus norvegicus olfactomedin related ER localized protein (Olfm1),	Rattus norvegicus neuronal olfactomedin-related ER localized protein (D2Sut1e) mRNA, complete
2009 4	1342	NM_053573		Rattus norvegicus thiol- specific antioxidant protein	cds  Rattus norvegicus mRNA for thiol- specific antioxidant protein (1-Cys

TABLE 1: E			1	9 197	AMy, Docket No. 4/921-5039V
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මන්තුයන්නේ මේ ග්රා	Contillor	GenEants Acet Ref. See ID	Modal Godo	Gana Namo	Universe Circular Mile
				Rattus norvegicus thiol-	
				specific antioxidant protein (Prdx5), mRNA, Length =	Rattus norvegicus mRNA for thiol- specific antioxidant protein (1-Cys
2010	19253	NM_053576	h	1414	peroxiredoxin)
				Rattus norvegicus	
		1	p.cc.	glucocorticoid-inducible protein (gis5), mRNA. Length	Rattus norvegicus gis5 mRNA for glucocorticoid-Inducible protein,
2011	3049	NM_053582	General .	= 1869	complete cds
				Rattus norvegicus	
				glucocorticoid-inducible protein (gis5), mRNA. Length	Rattus norvegicus gis5 mRNA for glucocorticoid-inducible protein.
2011	3050	NM_053582	o,General		complete cds
				Rattus norvegicus	
				cytochrome c oxidase subunit Vb (Cox5b), mRNA.	Rat mRNA for cytochrome c oxidase
2012	21423	NM_053586	s,y	Length = 485	subunit Vla
				Rattus norvegicus S100	
				calcium-binding protein A9 (calgranulin B) (S100a9),	Rattus norvegicus intracellular calcius binding protein (MRP14) mRNA,
2013	21445	NM_053587	t,v	mRNA. Length = 494	complete cds
				Rattus norvegicus dipeptidase 1 (Dpep1),	Bet dissetides (deset) - But
2014	20871	NM 053591	lu .	mRNA. Length = 2179	Rat dipeptidase (dpep1) mRNA, complete cds
			1	Rattus norvegicus	
2014	20870	NM 053591		dipeptidase 1 (Dpep1), mRNA. Length = 2179	Rat dipeptidase (dpep1) mRNA, complete cds
2014	20070	1416 000001	1	Rattus norvegicus prolein	Complete cas
				tyrosine phosphatase,	
2015	21044	NM 053594	d	receptor type, R (Ptpm), mRNA. Length = 3565	Rattus norvegicus mRNA for tyrosine phosphatase CBPTP, complete cds
	2.104.1	000001			prosprietos con 11, compiete cos
				Rattus norvegicus endothelin- converting enzyme 1 (Ece1),	0-1-0-1-1
2016	21709	NM_053596	k	mRNA. Length = 4469	Rat mRNA for endothelin-converting enzyme, complete cds
				Rattus norvegicus endothelin converting enzyme 1 (Ece1),	Rat mRNA for endothelin-converting
2016	21708	NM 053596	z	mRNA. Length = 4469	enzyme, complete cds
				Rattus norvegicus nuclear	
2017	1597	NM 053611		proten 1 (Nupr1), mRNA. Length = 602	Rattus norvegicus p8 mRNA, complete cds
	1001		1	Rattus norvegicus Bardet-	Sompros Gue
				Biedl syndrome 2 (human) (Bbs2), mRNA. Length =	D. W
2018	5565	NM 053618		(BDS2), MKNA. Length = 2573	Rattus norvegicus BBS2 (Bbs2) mRNA, complete cds
				Rattus norvegicus fatty acid-	
			1	Coenzyme A ligase, long chain 4 (Facl4), mRNA.	Pattue population mPNA for A == 4
2019	13004	NM 053623			Rattus norvegicus mRNA for Acyl- CoA synthetase, complete cds
			1	Rattus norvegicus D-amino	
2020	1127	NM 053626		acid oxidase (Dao1), mRNA. Length = 1646	Rattus norvegicus mRNA for D-amino acid oxidase, complete cds
2020	1141	14M_033026		Rattus norvegicus beta-	acid oxidase, complete cos
				carotene 15, 15'-	Rattus norvegicus mRNA for beta-
2021	18644	NM 053648			carotene 15,15'-dioxygenase, complete cds
	.0074				ESTs, Highly similar to VEGC MOUSE
			]	endothelial growth factor C	VASCULAR ENDOTHELIAL
2022	21637	NM 053653			GROWTH FACTOR C PRECURSOR IM.musculus)
				Rattus norvegicus cyclin L	[m.musoulus]

WO 02/095000

TABLE (:	SUMMARY	13.1			Ally, Doskol No. 44924-5039 Dos. No. 177380
Sequence ID No.	licentifler	GanBank Ace/ Rof. Songlib	Model Gode	Gance Marrie	Unigene Cluster Tho
				Rattus norvegicus Cbp/p300 interacting transactivator, with Glu/Asp-rich carboxy- terminal domain, 2 (Cited2),	Rattus norvegicus transcription fact
2024	16121	NM_053698	h.j.z	mRNA. Length = 1155 Rattus norvegicus Cbp/p300 interacting transactivator, with Glu/Asp-rich carboxy-	MRG1 mRNA, complete cds
2024	16122	NM_053698	h,j,z	terminal domain, 2 (Cited2), mRNA. Length = 1155	Rattus norvegicus transcription fact MRG1 mRNA, complete cds
2025	25379	NM 053713	General	Rattus norvegicus Kruppel- like factor 4 (gut) (Klf4), mRNA. Length = 2393	
2025	13622	NM_053713	General	Rattus norvegicus Kruppel- like factor 4 (gut) (Klf4), mRNA, Length = 2393	ESTs, Moderately similar to zinc fin protein [R.norvegicus]
2026	15376	NM_053747	h	Rattus norvegicus ubiquilin 1 (Ubqln1), mRNA. Length = 2131	Rattus norvegicus mRNA for DA41, complete cds
				Rattus norvegicus dipeptidylpeptidase III (Dpp3), mRNA. Length =	Rattus norvegicus mRNA for
2027	1218	NM_053748	b	2632 Rattus norvegicus cytochrome P450, 40 (25- hydroxyvitamin D3 1 alpha- hydroxylase) (Cyp40),	dipeptidyl peptidase III, complete co Rattus norvegicus 25-hydroxyvitam D 1-hydroxylase (CYP1) mRNA,
2028	1137	NM_053763	У	mRNA. Length = 2426 Rattus norvegicus protein	complete cds
2029	15996	NM 053769	cc	tyrosine phosphatase, non- receptor type 16 (Ptpn16), mRNA. Length = 1104	Rattus norvegicus protein tyrosine phosphatase mRNA, complete cds
2030	8652	NM_053774	9	Rattus norvegicus ubiquitin specific protease 2 (Usp2), mRNA. Length = 1857	Rattus norvegicus deubiquitinating enzyme Ubp69 (ubp69) mRNA, complete cds
				Rattus norvegicus potassium channel, subfamily K,	
2031	14664	NM_053806	General	member 6 (TWIK-2) (Kcnk6), mRNA. Length = 2243 Rattus norvegicus BCL2-	ESTs
2032	4361	NM_053812	k	antagonist/killer 1 (Bak1), mRNA. Length = 1923 Rattus norvegicus tissue	Rattus norvegicus BAK protein (Bak mRNA, complete cds
2034	15002	NM_053819	b,x,bb, General	inhibitor of metalloproteinase 1 (Timp1), mRNA. Length = 740	Rattus norvegicus tissue inhibitor of metalloproteinase-1 (TIMP1), mRNA complete cds
2034	15003		b,l,x,bb, General	Rattus norvegicus tissue irrhibitor of metalloproteinase 1 (Timp1), mRNA. Length = 740	Rattus norvegicus tissue inhibitor of metalloproteinase-1 (TIMP1), mRNA complete cds
2034	16173	NM_053819 /	General	Rattus norvegicus S100 calcium-binding protein A8 (calgranulin A) (S100a8), mRNA. Length = 361	Rattus norvegicus intercellular calciu binding protein (MRP8) mRNA, complete cds
2036	17154	NM_053835	j,z	Rattus norvegicus clathrin, light polypeptide (Lcb) (Citb), mRNA. Length = 982	Rat clathrin light chain (LCB2) mRN. complete cds,Rat clathrin light chain (LCB3) mRNA, complete cds
2037	20868	NM 053843	t	Rattus norvegicus Fc receptor, IgG, low affinity III (Fcgr3), mRNA, Length = 1318	Rat Fc-gamma receptor mRNA, complete cds
2037	20869	NM 053843	ı	Rattus norvegicus Fc receptor, IgG, low affinity III (Fcgr3), mRNA. Length =	Rat Fc-gamma receptor mRNA, complete cds

	SUMMARY			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Ang. Dookel No. 44921-50330 Doc. No. 1793331
10000000 1000000000000000000000000000	lid million	GonBarik Aeel' Raik Scoplio	Model Gode		Valence Cluster Tills
2040	714	NM_053863	y	Rattus norvegicus solute carrier family 28 (sodium- coupled nucleoside transporter), member 1 (Slc28a1), mRNA. Length = 2401	Rattus norvegicus Sprague-Dawley sodium-dependent nucleoside transporter (rCNT1) mRNA, complet cds
2041	19781	NM_053883	ь	Rattus norvegicus dual specificity phosphatase 6 (Dusp6), mRNA. Length = 2104	Rattus norvegicus dual-specificity protein tyrosine phosphatase (rVH6) mRNA, complete cds
2041	19780	NM 053883	Ь	Rattus norvegicus dual specificity phosphatase 6 (Dusp6), mRNA, Length = 2104	Rattus norvegicus dual-specificity protein tyrosine phosphatase (rVH6) mRNA, complete cds
2042	1454	NM 053887	General	Rattus norvegicus mitogen activated protein kinase kinase kinase 1 (Map3k1), mRNA, Length = 5180	Rattus norvegicus MAP kinase kinas kinase 1 (MEKK1) mRNA, complete
2043	1660	NM_053891	9	Rattus norvegicus cyclin- dependent kinase 5, reguletory subunit 1 (p35) (Cdk5r), mRNA. Length ≈ 1208	Rattus norvegicus P35 mRNA,
2044	712	NM 053896	k	Rattus norvegicus aldehyde dehydrogenase famity 1, subfamily A2 (Aldh1a2), mRNA. Length = 2240	Rattus norvegicus aldehyde dehydrogenase mRNA, complete cds
2045	753	NM 053897	k	Rattus norvegicus coagulation factor II (thrombin) receptor-like 1 (F2r11), mRNA. Length = 1428	Rattus norvegicus proteinese- activated receptor-2 mRNA, complete
2046	794	NM_053902	General	Rattus norvegicus kynureninase (L-kynurenine hydrolase) (Kynu), mRNA, Length = 1765	Rattus norvegicus L-kynurenine hydrolase mRNA, complete cds
2047	17937	NM_053911	,	Rattus norvegicus pleckstrin homology, Sec7 and coiled/coil domains 2 (Pscd2), mRNA. Length = 1561	Rattus norvegicus sec7B mRNA, complete cds
2048	8188	NM 053927		Rattus norvegicus erythrocyte membrane protein band 4.1-like 3 (Epb41l3), mRNA. Length = 4543	Rattus norvegicus mRNA for type II brain 4.1, complete cds
				Rattus norvegicus endothelial differentiation, lysophosphatidic acid G- protein-coupled receptor. 2	Rattus norvegicus putative G-protein
2050 -	1628 .	NM_053936	h	(Edg2), mRNA. Length = 1543 Rattus norvegicus crystallin,	coupled receptor GPCR91 (Gpcr91) mRNA, complete cds
2051	13954	NM_053955	General	mu (Crym), mRNA. Length = 1227 Rattus norvegicus	Rattus norvegicus CDK108 mRNA
2052	408	NM_053961	General I	endoplasmic retuclum protein 29 (Erp29), mRNA. Length = 4529 Rattus norvegicus	R.norvegicus mRNA encoding 45kDe protein which binds to heymann nephritis antigen gp330
2052	19991	NM_053961	1	endoplasmic retuclum protein 29 (Erp29), mRNA.	mitochondrial aconitase (nuclear aco2 gene)

TABLE OF S	STEEN PRODUCES	Part of			"Ally, Dookel No. 44920-5083V
- KO/KQ-					Dog. No. 1793317
Sequence D No.	(dan)))jar	GenBarik Area Raf, Steglib	Mode Godo	Gene Namo	Unigana Cluster VIIIo
2052	16190	NM 053961		Rattus norvegicus endoplasmic retuclum protein 29 (Erp29), mRNA. Length = 4529	ESTs, Weakly similar to ECHM RAT ENOYL-COA HYDRATASE, MITOCHONDRIAL PRECURSOR (R.norvegicus)
				Rattus norvegicus endoplasmic retuclum protein 29 (Erp29), mRNA.	( marrogato)
2052	21355	NM_053961	j.l.y.z	Length = 4529 Rattus norvegicus ribosomal protein L6 (Rpl6), mRNA.	R.norvegicus mRNA for ribosomal
2055	15136	NM_053971	aa	Length = 963 Rattus norvegicus ribosomal	protein L6
2055	15135	NM_053971	d	protein L6 (Rpl6), mRNA. Length = 963	R.norvegicus mRNA for ribosomal protein L6
2056	1764	NM 053974		Rattus norvegicus eukaryotic translation initiation factor 4E (Eif4e), mRNA. Length = 1647	
				Rattus norvegicus ADP- ribosylation factor related protein 1 (Arfrp1), mRNA.	R.norvegicus (Sprague Dawley) ARP
2057	1292	NM_053980	<del> </del>	Length = 943 Raltus norvegicus ribosomal protein S15a (Rps15a),	mRNA for ARF-releted protein  R.norvegicus mRNA for ribosomal
2058	15468	NM_053982	9	mRNA. Length = 449 Rattus norvegicus H3	protein S15a
2059	15642	NM_053985	General	histone, family 3B (H3f3b), mRNA, Length = 1107	R.norvegicus mRNA for histone H3.3
				Rattus norvegicus CD36 antigen (collagen type I receptor, thrombospondin receptor)-like 2 (Cd36/2),	Rat lysosomal membrane protein
2060	21066	NM_054001	1	mRNA. Length = 1938 Rattus norvegicus Rgc32 protein (Rgc32), mRNA.	(LIMPII) mRNA, complete cds Rattus norvegicus RGC-32 (RGC-32)
2061	17326	NM_054008	0	Length = 889 Rattus norvegicus Rgc32	mRNA, complete cds
2061	17327	NM_054008	cc	protein (Rgc32), mRNA. Length = 889 Rattus norvegicus Rgc32	Rattus norvegicus RGC-32 (RGC-32) mRNA, complete cds
2061	17329	NM_054008	g,o,cc	protein (Rgc32), mRNA. Length = 889	Rattus norvegicus RGC-32 (RGC-32) mRNA, complete cds
				Rattus norvegicus proteasome (prosome, macropain) subunit, beta type 6 (Psmb6), mRNA.	
2062	25253	NM_057099	j,l,m,p,z	Length = 760 Rattus norvegicus	
2062	22849		i.i	proteasome (prosome, macropain) subunit, beta type 6 (Psmb6), mRNA. Length = 760	ESTs, Highly similar to PROTEASOME DELTA CHAIN
		NM_057099	J.1	Rattus norvegicus A kinase (PRKA) anchor protein (gravin) 12 (Akap12), mRNA:	PRECURSOR [R.norvegicus]  Rattus norvegicus PKC binding protein and substrate mRNA,
2063	19657	NM_057103	b.cc .	Length = 5236 Rattus norvegicus UDP	complete cds
2064	5492	NM_057105 .	1 1	glycosyltransferase 1 family, polypeptide A6 (Ugt1a6), mRNA. Length = 1593	ESTs,UDP-glucuronosyltransferase 1 family, member 1
				Rattus norvegicus UDP glycosyltransferase 1 family, polypeptide A6 (Ugt1a6),	Rattus norvegicus UDP- glucuronosyitransferase UGT1A7 mRNA, complete cds,UDP- glucuronosyitransferase 1 family,

VABLE 1: 8	SUMMARN	A11			Ally, Dooket No. 44921-5039 Dog. No. 177542
Soqueneo ID No	MeriMor	GerfBank (Acc) Roft Sorgile		Gene Name	Unigono Gluster Titlo
2064	15125	NM_057105	s	Rattus norvegicus UDP glycosyltransferase 1 family, polypeptide A6 (Ugt1a6), mRNA. Length = 1593	Rattus norvegicus UDP- glucuronosyltransferase UGT1A7 mRNA, complete cds,UDP- glucuronosyltransferase 1 family, member 1
2066	15391	NM_057114	0	Rattus norvegicus peroxiredoxin 1 (Prdx1), mRNA. Length = 882	Rat mRNA for HBP23 (heme-bindir protein 23 kDa), complete cds
2067	727	NM 057123	m	Rattus norvegicus protease (prosome, macropain) 26S subunit, ATPase 1 (Psmc1), mRNA. Length = 1556	Rattus norvegicus mRNA for proteasomal ATPase (S4), completeds
2068	915	NM_057124	s	Rattus norvegicus pyrimidinergic receptor P2Y, G-protein coupled, 6 (P2ry6) mRNA. Length = 1922	Rat mRNA for novel G protein-coup P2 receptor, complete cds
2069	15151	NM_057131	k	Rattus norvegicus phosphoribosyl pyrophosphate synthetase- associated protein 2 (Prpsap2), mRNA. Length = 1612	Rattus norvegicus mRNA for 41-kD phosphoribosylpyrophosphate synthetase-associated protein, complete cds
2070	1892	NM 057144	6	Rattus norvegicus cysteine- rich protein 3 (Csrp3), mRNA. Length = 853	R.norvegicus mRNA for muscle LIN
2071	12333	NM 057155	,	Rattus norvegicus X-prolyl aminopeptidase (aminopeptidase P) 2, membrane-bound (Xpnpep2), mRNA. Length = 2828	Rattus norvegicus membrane-boun aminopeptidase P mRNA, complete cds
2071	12331	NM_057155	v,General		Rattus norvegicus membrane-boun aminopeptidase P mRNA, complete cds
2071	12332	NM_057155	If,General	Rattus norvegicus X-prolyl aminopeptidase (aminopeptidase P) 2, membrane-bound (Xpnpep2), mRNA. Length = 2828	Rattus norvegicus membrane-bount aminopeptidase P mRNA, complete cds
2072	17477	NM_057194	a,General		Rattus norvegicus phospholipid scramblase PLSCR mRNA, complet cds
2073	15408	NM_057197	p,t	mRNA. Length = 1109	Rattus norvegicus mRNA for 2.4- dienoyl-CoA reductase precursor, complete cds
073	15409	NM_057197	. :	Rattus norvegicus 2,4- dienoyl CoA reductase 1, mitochondrial (Decr1), mRNA. Length = 1109	Rattus norvegicus mRNA for 2,4- dienoyl-CoA reductase precursor, complete cds
				Rattus norvegicus phosphoribosyl pyrophosphate	Rattus norvegicus mRNA (or
074	7866	NM_057198 :			amidophosohoribosyltransferase

PCT/US02/16173

Table 1: S	UMMARY.				Any, Docket No. 43921-5030
3 . 5			15 - V		Doc. No. 17933E
Sequence :	STATE OF THE PARTY.	Genfanik/Ace	(aborda)	7 (c) (c) (d)	The standard to some and
ID No.	identifiers	Ref. Sec ID	Gode.	Crome Norme	Uniterana Chester Titla
2075	14125			Rattus norvegicus tropomyosin 3, gamma (Tpm3), mRNA. Length =	Rattus norvegicus tropomyosin nor muscle isoform NM1 (TPM-gamma mRNA, complete cds,Rattus norvegicus tropomyosin non-muscl isoform NM3 (TPM-gamma) mRNA complete cds
2015	14125	NM_057208	h.j.y.z	Rattus norvegicus synaptic	Complete cus
2076	1743	NM_057210	k,s	vesicle glycoprotein 2 a (Sv2a), mRNA. Length = 3844	Rattus norvegicus synaptic vesicle protein (SV2) mRNA, complete cds
2077	10498	NM_078617	a	Rattus norvegicus ribosomal protein S23 (Rps23), mRNA. Length = 432	R.norvegicus (Sprague-Dawley) ribosomal protein S23 mRNA
2077	10430	070017	-	Rattus norvegicus Smhs1	TECSOTIAL PROTEIN OF THICKEN
2078	8820	NM_080399	n	protein (Smhs1), mRNA. Length = 1107	ESTs
2079	15701	NM_080581	j,m,y,z	Rattus norvegicus ATP- binding cassette, sub-family C (CFTR/MRP), member 3 (Abcc3), mRNA. Length = 5174	Rattus norvegicus mRNA for multid resistance-associated protein (MRF like protein-2 (MLP-2), complete cd
2079	20105	NM 080581	aa	Rattus norvegicus ATP- binding cassette, sub-family C (CFTR/MRP), member 3 (Abcc3), mRNA. Length = 5174	ESTs
2080	16109	NM 080585	c	Rattus norvegicus N- ethylmaleimide sensitive fusion protein attachment protein alpha (Napa), mRNA. Length = 1505	Rattus norvegicus mRNA for alpha- soluble NSF attachment protein
2081	1757	NM 080766	d	Rattus norvegicus Neuroblastoma RAS viral (v- ras) oncogene homolog (Nras), mRNA. Length = 3350	R.norvegicus N-ras gene for p21
2082	7108	NM_080778	у	Rattus norvegicus nuclear receptor subfamily 2, group F, member 2 (Nr2f2), mRNA. Length = 1572	Rattus norvegicus ovalbumin upstream promoter beta nuclear receptor rCOUPb mRNA, complete cds
2083	132	NM_080782	k	Rattus norvegicus cyclin- dependent kinase inhibitor 1A (P21) (Cdkn1a), mRNA. Length = 495	Rattus norvegicus p21 (WAF1) mRNA, complete cds
2083	133	NM 080782		Rattus norvegicus cyclin- dependent kinase inhibitor 1A (P21) (Cdkn1a), mRNA. Length = 495	Rattus norvegicus p21 (WAF1) mRNA, complete cds
2084	20122	a NM_080887	General	Rattus norvegicus thloredoxin-like (32kD) (Txnl), mRNA. Length = 1061	ESTs, Highly similar to thioredoxin- related protein [M.musculus]
2085	6143	NM_080892	e	mRNA. Length = 1685	ESTs, Moderately similar to seleniu binding protein [H.sapiens]
2086	9952	NM_080902	h	Rattus norvegicus hypoxia induced gene 1 (Hig1), mRNA. Length = 355 Rattus norvegicus	ESTs, Moderately similar to AF0770 1 HSPC010 [H.saplens]
				membrane-associated	ESTs, Moderately similar to DD96

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VANELUE 118 8	BUMMARY				Atty, Dockol No. 44921-59950 Doc. No. 1763397
Seguence ID No.	fiction (fflor	GenBank Acel Rof, Son ID	Model Gode	Gene Namo	Valgana Gluster Titla
				Rattus norvegicus coronin,	1.
2088	21695	NM 130411	c,x	actin binding protein 1A (Coro1a), mRNA. Length = 1386	ESTs, Weakly similar to coronin-like protein [R.norvegicus]
2089	21391	NM 130416	x,General	Rattus norvegicus ennexin A7 (Anxa7), mRNA. Length : 2912	ESTs, Weakly similar to ANX4 RAT ANNEXIN IV [R.norvegicus]
2090	20694	NM 130430	General	Rattus norvegicus proteasome (prosome, macropain) 26S subunit, non ATPase, 9 (Psmd9), mRNA, Length = 1448	
2000	20004	130430	Concia	Rattus norvegicus	
2090	19818	NM 130430	cc	proteasome (prosome, macropain) 26S subunit, non ATPase, 9 (Psmd9), mRNA. Length = 1448	EST
2090	18810	NM 130430	e,s	Rattus norvegicus proteasome (prosome, macropain) 26S subunit, non ATPase, 9 (Psmd9), mRNA. Length = 1448	mitochondrial H+-ATP synthase elpha
				Rattus norvegicus acetyl- Coenzyme A acyltransferase 2 (mitochondral 3-oxoacyl- Coenzyme A thiolese) (Acaa2), mRNA. Length =	
2091	18293	NM_130433	q	1619	Rat mRNA for 3-oxoacyl-CoA thiolase
2092 2093	25064 3244	S45392 S63519	a,n		ESTs
2093	25501	S63521	la .		12018
2095	16248	S68135	h		Ret brain glucose-transporter protein mRNA, complete cds
					ESTs, Weakly similar to HS9B RAT HEAT SHOCK PROTEIN HSP 90-
2096	18647	S69316	19		BETA [R.norvegicus] ESTs, Weakly similar to ABD4
2097	24351	S74257			MOUSE ATP-BINDING CASSETTE, SUB-FAMILY D, MEMBER 4
2098	25066	S75280	ld		minuocusoj
2099	1460	S76054	j,l,m,x,y,G eneral		ESTs, Highly similar to K2C8 RAT KERATIN, TYPE II CYTOSKELETAL 8 [R.norvegicus]
2100	25539	S76742	v		- [ ogicus]
2101	16400	S76779	c		Rat apolipoprotein e mrna
2102	24469	S77858	n		ESTs, Highly similar to MLES RAT MYOSIN LIGHT CHAIN ALKALI, SMOOTH-MUSCLE ISOFORM [R.norvegicus]
2103	25545	S77900	k,s		
2103	21583	S77900	k		ESTs
2104	10260	S81497	s	histamine N-	ESTs
2105	3609	S82579	k	methyltransferase	histamine N-methyltransferase Rattus norvegicus clone 15 polymeric
2106	111	U02506	u		immunoglobulin receptor mRNA, 3'UTR microsatellite repeats
2107	14959	U03390	a,q, General		Rattus norvegicus Sprague Dawley protein kinase C receptor mRNA, complete cds
2109	2010	U05675	b,x,bb		Rattus norvegicus Sprague-Dawley fibrinogen B beta chain mRNA, complete cds
2110	15462	U05075	d d		protein S

TABLE 1: S	UMMARNY				Atty. Dookst No. 449214 Doc. No. 17
Securico Duo:	leteroff/cp	GenBank Aug. Roft Sondi	Model Gode	Grane Mentro	Universe Christer Title
2112	1583	U07201	s,Genera	Asparagine synthetase	Asparagine synthetase
2113	627	U09229	h		Rattus norvegicus New Engla Deaconess transcription facto partial cds
2114	809	U17035	General		Rattus norvegicus interferon protein 10 (IP-10) mRNA, cor cds
2115 2116	16675 25587	U17565	k,x,bb	mini chromosome maintenance deficient 6 (S. cerevisiae)	mini chromosome maintenano deficient 6 (S. cerevisiae)
2110	20001	020110	<del> </del>		Rattus norvegicus nuclear rec
2117	90	U20796	r		Rev-ErbA-beta mRNA, partial
2118 2119	25589	U21718	h,aa		
2119	22196	U21719	h		ESTs
2120	17118	U25746	s		Rattus norvegicus RNA helica arginine-serine-rich domain m complete cds
2121	1537	U27518	g,h,n		Rattus norvegicus UDP- glucuronosyltransferase mRN complete cds
2122	1558	U28504	bb		Rattus norvegicus Ne+/PI
				<b> </b>	cotransporter-1 mRNA, compl Rattus norvegicus B/K protein
2123	16193 17480	U30831	n		complete cds
2124	17460	U31598	Z		R.norvegicus mRNA for RT1.h Rattus norvegicus retinol dehydrogenase type II mRNA
2125	18302	U33500	General		complete cds
2126	25599	U34897	у		
2127	1394	U37099	h		Rattus norvegicus GTP-bindin protein (rab 3C) mRNA, compi
2128	244	U38376			EST, Weakly similer to actin-fi binding protein Frabin [R.norvegicus],Rattus norvegic cytosolic phospholipase A2 mi
2128	244	U38376	n		complete cds Rattus norvegicus Cys2/His2 a
2129	1623	U41164	h		finger protein (rKr1) mRNA, co
2130	15851	U42719	f,t,x, General	0	
		042719	General	Complement component 4	Complement component 4 Rattus norvegicus apoptosis- regulating basic protein mRNA
2131	17886	U47315	s,z i,t,	lankanan sananahan dada	complete cds
2132	21654	U53184	General .	estrogen-responsive uterine transcript	estrogen-responsive uterine tra Rattus norvegicus FceRl gamn
2133	1439	U57391	<b>w</b>	solute carrier family 16	chein interacting protein SH2-E B) mRNA, complete cds
2134	725	U62316	bb .	(monocarboxylic acid transporters), mem	solute carrier family 16 (monocarboxylic acid transport member 7
			b,cc,	0	
2137	2153	U75404	General		Rattus norvegicus cell adhesio
	4956	U76714	j.y		regulator (CAR1) mRNA, comp
	1477		i,m		ESTs
2141 2	21703	U82591	z		Rattus norvegicus RCL (Rcl) m complete cds Rattus norvegicus putative cell
142	777	U89744	8		surface antigen mRNA, comple
		U90725			

MARKE (18. 6	UMMARY				Ally, Dealer No. 43921-50990 Dec. No. 1793697
Sequence	1/4/00 / AF	Good South Agent	Model	Section 1	
D No.	homorada	Ref. Seq.ID	Gode	Cana Namo	Unifrano Cluster Titlo
LEAUCE.	noemmer.	(Kell-Godple)	Code		emparacuster may
2146	819	X02284	j,z	Aldolase B, fructose- biphosphate	Aldolase B, fructose-biphosphate
2140	019	AUZZO4	11.2	Aldolase B, fructose-	Aldolase B, Iructose-biphosphate
2147	818	X02291	e.j.z	biphosphate	Aldolase B, fructose-blphosphate
	10.0	J.GEEG !	100,2	glutathione S-transferase, oi	Tudolose D, ridelose olpriospriate
2148	20818	X02904	ln.a	2	glutathione S-transferase, pi 2
2149	16401	X04979	c		Rat apolipoprotein e mma
	1			Pyruvate kinase, liver and	
2150	20513	X05684	0,1	RBC	Pyruvate kinase, liver and RBC
2151	25084	X06769	cc		
2152	672 25675	X13722	h		Rat mRNA for LDL-receptor
2153	256/5	X14181	n		FOT- UI-M - I-M- I- COO
	1		1	1	ESTs, Highly similar to 60S RIBOSOMAL PROTEIN L18A
2153	20810	X14181	n,q,w	1	IR.norvegicus)
2100	20010	17101	11,4,4		ESTs, Highly similar to RL26 RAT 60
	1				RIBOSOMAL PROTEIN L26
2154	18541	X14671	J <sub>v</sub>	j	[R.norvegicus]
2155	25679	X15013	la .		[[rinorrogioos]
			1		ESTs, Highly similar to RL7A HUMA
	1		1		60S RIBOSOMAL PROTEIN L7A
2155	19244	X15013	c,q,w	!	[R.norvegicus]
		1			ESTs, Highly similar to RS16_HUMAI
	1				40S RIBOSOMAL PROTEIN S1
2156 ,	15626	X17665	a		[R.norvegicus]
				phospholipase A2, group IIA	phospholipase A2, group IIA
2157	1893	X51529	t ·	(platelets, synovial fluid)	(platelets, synovial fluid)
2158	25686	X51536	bb		
	i				ESTs, Highly similar to RS3 MOUSE 40S RIBOSOMAL PROTEIN S3
2158 .	10819	X51536	aa.bb		IR.norvegicus)
2108	10819	X31536	88,00		ESTs, Highly similar to RL9 RAT 60S
	1				RIBOSOMAL PROTEIN L9
2159	18250	X51706	a.g.w	ribosomal protein L9	[R.norvegicus]
	1000		0,4,11	noodana protoni 20	ESTs, Highly similar to RS19 RAT
					40S RIBOSOMAL PROTEIN S19
2160	20872	X51707	а ,	ribosomal protein S19	[R.norvegicus]
2161	516		c		Rat mRNA for Mx1 protein
2162	25689	X52815	g .		
					Rattus norvegicus ribosomal protein
2163	20427	X53378	w		S13 (RPS13) mRNA, 3' end
					ESTs, Highly similar to 60S
					RIBOSOMAL PROTEIN L12
2164 .	18606		General d.u.		[R.norvegicus]
2165	1463		General		Rat mRNA for preprocathepsin D (EC 3.4.23.5)
2 103	1403	A34407	General		ESTs, Highly similar to 60S ACIDIC
				1	RIBOSOMAL PROTEIN P2
2166	24577	X55153	a.v		[R.norvegicus]
	2.011	7,00,00	-		LOCUS NOTCH HOMOLOG
					PROTEIN 1 PRECURSOR
2167	10344	X57405	i.m J		(R.norvegicus)
			1		ESTs, Highly similar to RS18 HUMAN
					40S RIBOSOMAL PROTEIN S18
2168	15106		p,n,q		[R.norvegicus]
2169 '	5667	X58200	q,bb .	ribosomal protein L23	
					ESTs, Highly similar to RL23_HUMAN
					60S RIBOSOMAL PROTEIN L23
2169	18611	X58200	a,v	ribosomal protein L23	[R.norvegicus]
					R.norvegicus ASI mRNA for
	47475	VE0200	1		mammalian equivalent of bacterial
2170	17175		w		large ribosomal subunit protein L22
			w ]	Ribosomal protein S5	Ribosomal protein S5
11/1	10109		c,q °	rciousornal protein 55	RIDUSUMAI PROTEIN S5
2172	25705		C.I,aa, General		

TABLE 1: 8	BUMMARY				Atty. Dookel No. 44921-50391 Doc. No. 179339
Secuence	THE REAL PROPERTY.	@onBenk Ace/	o ad	-	46.
DKo.	Memilitar	Rof. San ID	سننى	Gene Name	Julipana Statem Tota
2173	25709	X59737	u		The state of the s
2174	18354	X59859	General	decorin	decorin
2174	118355	X59859	1	'idecorin	decorin
2175	21657	X61381	General		Rattus norvegicus interferon-inducito protein variant 10 mRNA, complete cds
			bb,		
2176	25718	X62145	General	ribosomal protein L8	1
2176	15875	X62145	a,q,v	ribosomal protein L8	ESTs, Highly similar to RL8_HUMAN 60S RIBOSOMAL PROTEIN L [R.norvegicus]
					ESTs, Highly similar to RL3 RAT 605 RIBOSOMAL PROTEIN L3
2177 2178	13646	X62166	bb		[R.norvegicus]
41/0	25721	X62325	P	t	ESTs, Highly similar to HIGH MOBILITY GROUP PROTEIN HMG-
2179	16012	x62875	m,s,z		MOBILITY GROUP PROTEIN HMG- [M.musculus]
2180	25730	X63369	cc c	<del> </del>	[[m.moculus]
2181	25089	X63594	General	1	
			cc,	1	
2181	25090	X63594	General		ESTs, Highly similar to RL2B_HUMA 60S RIBOSOMAL PROTEIN L23A
2182	20844	X65228	n,w	1	[R.norvegicus]
2183 2184	20879	X65296 X68782	j.y	carboxylestarase 1	carboxylesterase 1
2185	16426	X70369	C		procellagen, type III, alpha 1
2186	16300	X70706	u	procollagen, type III, alpha 1 plastin 3 (T-isoform)	plastin 3 (T-isoform)
2187	24232	X75207	c	cyclin D1	cyclin D1
10/	27202	AT SECT	<del></del>	Cyclin D1	R.norvegicus (Sprague Dawley) alpha
2188	16272	X76456	n,p		albumin gene
2189	25741	X76489	lu		
				prolyl 4-hydroxylase alpha	
2190	23302	X78949	h	subunit	prolyl 4-hydroxylase alpha subunit
2191	25747	X81448	General		
					ESTs, Highly similar to K1CS RAT KERATIN, TYPE I CYTOSKELETAL
2192 2193	24115	X81449 X89696	u		19 [R.norvegicus]
2194	25097	X90642	g y,z		
	25097	A90642	y,z	-	ESTs, Highly similar to RADIATION-
			cc.	i	INDUCIRI E IMMEDIATE-EARI Y
2195	12978 .	X96437	cc, General		INDUCIBLE IMMEDIATE-EARLY GENE IEX-1 [M.musculus]
	12978	X96437 Y07704			
2195	4594	Y07704	General c g.p.		GENE IEX-1 [M.musculus] Rattus norvegicus mRNA Best5 protein
2195			General c	oxidative stress induced	GENE IEX-1 [M.musculus] Rattus norvegicus mRNA Best5 protein oxidative stress induced Rattus norvegicus mRNA for putative
2195	4594 25777 15986	Y07704	c g.p. General	oxidative stress induced	GENE IEX-1 [M musculus] Rattus norvegicus mRNA Best5 protein oxidative stress induced Rattus norvegicus mRNA for putative integral membrane transport protein (UST1r)
2195 2197 2198 2199 2200	4594 25777 15986 20890	Y07704 Y08355 Y09945 Y13275	c g.p. General bb,		GENE IEX-1 [M.musculus] Rattus norvegicus mRNA Best5 protein oxidative stress induced Rattus norvegicus mRNA for putative integral membrane transport protein (UST1r) Rattus norvegicus mRNA for D6.1A protein
2195 2197 2198 2199 2200	4594 25777 15986 20890	Y07704 Y08355 Y09945 Y13275	c g.p. General bb,		GENE IEX-1 [M. musculus] Rattus norvegicus mRNA Beat5 protein  oxidative stress induced Rattus norvegicus mRNA for putative integral membrane transport protein (UST1) Rattus norvagicus mRNA for D6.1A protein Rattus norvagicus DAD-1 gene
2195 2197 2198 2199 2200 2201	4594 25777 15986 20890 21914	Y07704 Y08355 Y09945 Y13275 Y13336 Z11995	General c g.p. General bb, General k		GENE [EX1   M.muscaulus]  Attatus norvegicus mRNA Best5 protein  oxidativs stress induced  Rattus norvegicus mRNA for putative integral membrane transport protein  (UST17)  Rattus norvegicus mRNA for D6.1A  protein  Rattus norvegicus mRNA for D6.1A  rattus norvegicus mRNA for D6.1A  rattus norvegicus mRNA for D6.1A  protein  Rattus norvegicus DAD-1 gene  R norvegicus mRNA ancoding d8XD  protein which binds to heyman g8XD  prophitis antigen g830
2195 2197 2198 2199 2200 2201 2202 2202	4594 25777 15986 20890 21914 406 18352	Y07704 Y08355 Y09945 Y13275 Y13336 Z11995 Z12288	General  c g.p. General  bb, General  k d		GENE [EXT   M. muscaulus] Rattus norvegicus mRNA BestS protein Rattus norvegicus mRNA for putative ritegari membrane transport protein LUST 11) Rattus norvegicus mRNA for putative ritegari membrane transport protein LUST 11) Rattus norvegicus mRNA for DE. 1A Rottus norvegicus mRNA for DE. 1A Rottus norvegicus DDD-1 gene Rottus norvegicus DD-1
2195 2197 2198 2199 2200 2201	4594 25777 15986 20890 21914 406 18352	Y07704 Y08355 Y09945 Y13275 Y13336 Z11995 Z12288	General  g.p. General  bb, General  k	decorin	GENE [EX-1   M. muscaulus] Rattus norvegicus mRNA Best5 protein Valentus rorvegicus mRVA for putative Rattus norvegicus mRVA for putative (USF 10) Rattus norvegicus mRNA for D6.1A protein Rattus norvegicus DAD-1 gene Rnorvegicus mRNA for D6.1A protein Rnorvegicus mRNA encoding 45kDa protein witch blands to heymann reppiratis antigen ga530 R Forvegicus mRNA for RT1 Ms ESTE, Moderately similar to T17342 hypothetical protein
2195 2197 2198 2199 2200 2201 2202 2202 2203 2204	4594 25777 15986 20890 21914 406 18352 17481	Y07704 Y08355 Y09945 Y13275 Y13336 Z11995 Z12298 Z49761	General c g.p. General bb, General k d o.General	decorin	GENE [EX-1 (M muscalus) Rattus norvegicus mRNA Best5 protein Oudalivis strass Induced Rattus norvegicus mRNA for putative Integral membrare transport protein (UST 1) Rattus norvegicus mRNA for D6.1A protein Rattus norvegicus mRNA for D6.1A protein Rattus norvegicus D6.D-1 gens Rattus norvegicus D6.D-1 gens Rattus norvegicus D6.D-1 gens Rattus norvegicus D6.D-1 gens Rattus norvegicus mRNA for RT1 Ma Rattus norvegicus mRNA for RT1 Ma EST Is, Modernistry sumilar 10 TT7342 CMCPG268KT (24 H 1 sapiens), Hants
2195 2197 2198 2199 2200 2201 2202 2203 2204	4594 25777 15986 20890 21914 406 18352 17481	Y07704 Y08355 Y09945 Y13276 Y13336 Z11995 Z12298 Z49761	General c g.p. General bb, General k d o.General t k	decorin  Heat shock protein 70-1	GENE [EXT   M. muscaulus   Rattus norvegicus mRNA Best5 protein   Rattus norvegicus mRNA for putative integral membrane transport protein   Rattus norvegicus mRNA for DE, 1A protein   Rattus norvegicus mRNA for DE, 1A protein   Rattus norvegicus DAD-1 gene   Rattus norvegicus DAD-1 gene   Rattus norvegicus mRNA for DE, 1A protein mich battus to heymann respiritis antigen ga330   decionin   Rattus norvegicus mRNA for RRT late   SCST, Moderately smilar 10 TT7342   DKPC2688611924   [N. sapiens], Heat shock protein TD.
2195 2197 2198 2199 2200 2201 2202 2203 2204 2205 2206	4594 25777 15986 20890 21914 406 18352 17481	Y07704 Y08355 Y09945 Y13275 Y13336 Z11995 Z12298 Z49761 Z75029 AA964755	General c g.p. General bb, General k d o.General	decorin  Heat shock protein 70-1	GENE [EX-1 (M muscalus) Rattus norvegicus mRNA Best5 protein Oudalivis strass Induced Rattus norvegicus mRNA for putative Integral membrare transport protein (UST 1) Rattus norvegicus mRNA for D6.1A protein Rattus norvegicus mRNA for D6.1A protein Rattus norvegicus D6.D-1 gens Rattus norvegicus D6.D-1 gens Rattus norvegicus D6.D-1 gens Rattus norvegicus D6.D-1 gens Rattus norvegicus mRNA for RT1 Ma Rattus norvegicus mRNA for RT1 Ma EST Is, Modernistry sumilar 10 TT7342 CMCPG268KT (24 H 1 sapiens), Hants

WO 02/095000 PCT/US02/16173

TABLE 1: S	UMMARY -		The state of	4. 1999	Afty, Doctos No. 43921-50893
李 清縣	1 34		138 75	4	Dos. No. 179999
Sequence	Ash a sec	GanBank Ace/	Model)		
D No.	Mentiller	Roft Sag (D	Gode	@comp (Nermo	Chigade Custer villo
				Bone morphogenetic protein	
2209	439	Z22607	w	4	Bone morphogenetic protein 4
2210	8665	AI071965	v	Heat shock protein 70-1	ESTs, Moderately similar to T17342 hypothetical protein DKFZp586K1924.1 [H.sapiens],Heal shock protein 70-1
2211	1155	U32681	It	Icrp-ductin	crp-ductin
2212	19252	AA892041	s	HMm:peroxiredoxin 5	Rattus norvegicus mRNA for thiol- specific antioxidant protein (1-Cys peroxiredoxin)
2213	15582	AI232320	,		Rat mitochondrial 3-hydroxy-3- methylglutaryl-CoA synthase mRNA complete cds
2214	17541	M26125	n	Epoxide hydrolase 1 (microsomal xenobiotic hydrolase)	Epoxide hydrolase 1 (microsomal xenobiotic hydrolase)
2215	18609	M30689	,		Rat Ly6-B antigen mRNA, complete cds
2216	6262	Al177125	g		ESTs
2217	23859	AI072161	1	-	ESTs
2218	21011	H32189	e	Glutathione-S-transferase, mu type 2 (Yb2)	Glutathione-S-transferase, mu type 2 (Yb2)
2220	2572	Al177143	b		ESTs
2221	125419	M22922	a	1	

	ATHWAYS		71 P*	ANNY, Doodlastino, 41.424, 4034. Doo, No. 1793307
Sequence IDNo.	Neferitives	Gerfenik : 44 Ikar Seg. IIV No.	Medal Goda	celiways
1	6949	AA012785	q	
2	25098	AA108277	h,v	
3	17312	AA108308	r	
4	16882	AA684537	0	
6	6049	AA685178	ly	
7	4426 21815	AA685974	l,m	
8	1600	AA686423 AA686470	19	
8	1599	AA686470	<del> </del>	
9	21997	AA799325	lu lu	
10	18396	AA799330	lv	
11	6581	AA799412	30	·
12	16538	AA799449	lk	
13	23294	AA799472	lu	
14	18290	AA799497	r	
15	18981	AA799523	е	
16	20843	AA799545	h	
17	16993	AA799560	b	
18	16576	AA799570	d	
19	18361	AA799591	<u> </u>	
20 22	17712	AA799598	Z	
23	18346	AA799718	!	
24	8768 11687	AA799726	<u> </u>	
25	18349	AA799732 AA799744	w	
26	17494	AA799751	n	
27	18360	AA799771	General	
28	18880	AA799801	w	
29	20998	AA799803	z	
30	21006	AA799861	c	
31	15011	AA799893	General	
32	20811	AA799899	a	
33	23202	AA799971	General	
34	4832	AA800190	b	
35	21656	AA800202	d	
36	18433	AA800218	j.y.z	
37	6386	AA800235	u	
38	18442	AA800258	h,k	
39 40	21092	AA800380	y .	
11	17325 13930	AA800587 AA800613	General	
	21372		cc,General	
	21372	AA800693 AA800693	s	
13		AA800701	k	
	6595	AA800753	<u>~</u>	
		AA800928	General	
		AA801165	o,y	
17		AA801307	General	
8		AA801395	General	
		AA817726	t,General	
	11215	AA817921	0	
1			g	
		AA818016	x	
		AA818026	k,General	
			i,k,General	
		AA818224	e,g,p,General	
			g,m	
		AA818359	<u>y</u>	
			b,aa	
		AA818512	v	
			h Consent	
			General b,v,cc,General	

MADGE & U	PANTHUMAN	S .		ATTY DOCUMENO, 44.921-5039 Doc. No. 17933
Saquancie ID No.	Octom Officer	Genflend: Accil Ref. Geog. 10 No.	Model Gode	Pathways :
63	11590	AA818721	d	
64	4291	AA818741	g.General	
65	4330	AA818747	o,General	
66	19723	AA818761	v,General	
67	13684	AA818770	h.j.l,m	
68	6322	AA818801	k	
69	7690	AA818875	General	1
70 71	4952 6094	AA818907	g,General	
72	110985	AA818911 AA818998	o,General	ļ
73	6120	AA819008	t t	<del></del>
74	2586	AA819081	6	<del></del>
76	6438	AA819269	0	
77	24721	AA819306	ld,w	
78	6250	AA819376	0.y	<del> </del>
30	6281	AA819517	0.7	
31	10141	AA819526	1	
32	6551	AA819558	Ti .	J
33	6723	AA819653	Ĵr .	1
34	14958	AA819744	aa	1
35	19433	AA819776	v	
36	6204	AA819889	aa	
37	22820	AA848315	General	Purine metabolism
38	6614	AA848389	bb	
39	21125	AA848437	General	
0	23504	AA848496	q	
1	18532	AA848675	9	
2	21140	AA848738	, c	
13	16128	AA848807	0	
15	22923	AA848929	g	
16	17339	AA849497 AA849518	General	
7	21275	AA849796	11 0	
18	16678	AA849827	i,I,m,General aa	
19	8515	AA849917	e e	
00	18447	AA849939	General	
01	12130	AA850037	p	
02	23981	AA850040	x,aa	
03	13615	AA850364	lt .	
05	2637	AA850893	×	
06	22093	AA850909	d	
07	21766	AA850916	c	
08	2847	AA850919	w	
09	12162	AA850975	h	
10	9514	AA850978	General .	
11 .	3924	AA851017	e,q	
11	3925	AA851017	o,General	
12	4490	AA851184	a,k	
13	19187	AA851230	General	
14	19189	AA851237	C	
15	15386	AA851241	m	
	21462	AA851261	g,i,General	
8	16902	AA851343	General	Oxidative phosphorylation, Ubiquinone
		AA851379 AA851392	p ;	biosynthesis
	23377		x x	
			General	
			r,u	
	4048		i,o,u,General	
	10561		bb l	
	17411		iy	
	1801		k,s,x,bb	

TABUE 28 (	PATRICULAYE		7	ANNY Docket No. 44944 (1994) Doc. No. 1
Saguence ID No.	Mentilifer	Content And Tell Seq. 10 No.	Medal Code	
126	18350	AA858674	lp	
127	19484	AA858693	e	
128	6360	AA858696	d	
129 130	17334	AA858704	P	
131	6380 113219	AA858758	q	
132	6384	AA858759 AA858788	I,m,General	
134	13412	AA858830	ip.	<del> </del>
135	7279	AA858892	F	
136	18217	AA858930	i	<del> </del>
137	5867	AA858953	v,General	Alanine and aspartate metabolism,Aminoacyl-tRNA biosynthesis
138	14479	AA858969	r	Incladolism, Armitoacyr-utty diosynthesis
139	6431	AA859085	it -	<u> </u>
140	117361	AA859114	o,General	
141	21025	AA859241	General	
142	10076	AA859271	ic	
143	21791	AA859333	k	
144	16314	AA859348	cc,General	
145	18862	AA859520	f	
146	15059	AA859545	ır	
147 148	19894	AA859581	s	
149	14353	AA859585 AA859648	h	
150	17316	AA859652	h General	
151	19067	AA859663	n,q	
152	22406	AA859680	n	
153	20599	AA859690	×	
154	14261	AA859693	u	
55	14138	AA859700	lv .	Porphyrin and chlorophyll metabolism
155	14139	AA859700	v	Porphyrin and chlorophyll metabolism
157	22374	AA859804		
158	22385	AA859805	b,k	
159	22773	AA859885	n	
160	22816	AA859898	k,x,z	
61	11891	AA859926 AA859942	x	
63	23121	AA859942 AA859948	k	
64	23166	AA859954	cc,General	
65		AA859966	aa	
		AA859981	q	Inositol phosphale metabolism
		AA860024	a,bb	modific phospitale metaconom
68 :	13974	AA860030	u.x.General	
	7090	AA860039	x	
	23769	AA860055	k,x	
		AA866240	w	
		AA866264	General	
		AA866276		Phenylalanine metabolism,Tyrosine
74	17742	AA866302		metabolism
		AA866414	a,h	
		AA866444 AA866454	p.q	
			j,l,m,y,z	
			h,m s	
			r	
			h	
			r t	
		AA874951	1	
84	16192	AA874995	w	
	16254	AA875025		
			cc,General	
87	20701	AA875097	b	

TABLE 2: T	PATHWAYS	Page (	Seign Argonia	Ally, Docket No. 44921-5069 Doc. No. 179339
Sequenco IDMo.	lelaniffiar	Gar Bank Accil Raff, Sag, ID No.	Model Code	TOTAL SAME SAME SAME
188	16416	AA875098	bb	
189	16419	AA875102	bb	
190	15313	AA875126	i,m,General	
191	10936	AA875146	W	
192	18084	AA875186	h	
193	15371	AA875205	iu .	
194	15401	AA875257	x,z	Oxidative phosphorylation, Ubiquinone
195	15410	AA875268	p,s	biosynthesis
196	15420	AA875286	11	
197 198	15446 7936	AA875327 AA875495	s,w	1
198	17314	AA875509	b,General	
200	24472	AA875523	i,i,m k	
201	15587	AA875577	1	<del></del>
202	15617	AA875620	General	
202	15618	AA875620	General	
203	5384	AA891041	f.cc.General	
204	24814	AA891209	f,p	<del>                                     </del>
205	21930	AA891322	d	1
206	17225	AA891553	h	
207	7522	AA891571	i,m	1
208	9071	AA891578	b	
209	19321	AA891666	u	
210	17693	AA891737	j,l,m,n,y,z	
211	17256	AA891739	General	
213	18269	AA891769	General	
214	9905	AA891774	s,bb,General	
215		AA891812	ld	
216	7050	AA891824	h	
217 218		AA891831	General	
219		AA891838 AA891842	<u> </u>	
220		AA891914	r,cc	
21		AA891943	g,s,z General	
222		AA891944	D	
23		AA891949	6.Z	
24		AA891965	General	
225		AA892053	f,j,l,m	
26		AA892066	v	
27	19469	AA892112	General	
28	14595	AA892128	lo,t,v	
29		AA892154	cc	
30	4482	AA892173	bb	
		AA892238	h	
		AA892268	d	
		AA892271	h .	
		AA892299	d	
		AA892367	a	
		AA892378	v ·	
		AA892382	j.p.s,x, General	Carbon fixation, Fructose and mannose metabolism, Glycolysis / Gluconeogenesis, Inositol
		AA892395	g,s	metabolism,Pentose phosphate cycle
		AA892414	u	
		AA892446	f	
		AA892462	p .	
		AA892468 .	i,General	
			n,v,General	
			n,u j	

				Dog. No. 1793
Sequence D No.	Man Willer	Conflorit Acci Rof. Seq. 10 No.	Muttel Cone	Pathoniya
247	11994	AA892507	aa	
248	23888	AA892520	w	
248	23889	AA892520	h	
249	8599	AA892522	P	
250	15154	AA892532	p	
251	17468	AA892545	ŗ	1
252	11203	AA892554	f,h	
253 254	18906	AA892561 AA892562	a,bb,General	
255	18274	AA892572	f.j.y.z	
256	4512	AA892578	cc	
257	15876	AA892582	w	
258	19085	AA892598	General	
258	19086	AA892598	General	
259	20065	AA892647	1	
260	20088	AA892666	a,n	
261	23783	AA892773	n	
262	17549	AA892776	f,z	
263	13542	AA892798	b	
264	22537	AA892799	General	Glyoxylate and dicarboxylate metabolism,Pyruvate metabolism
264	22539	AA892799 .	v	Glyoxylate and dicarboxylate metabolism, Pyruvate metabolism
264	22538	AA892799	General	Glyoxylate and dicarboxylate metabolism, Pyruvate metabolism
265	6951	AA892820	h	
266	23322	AA892821	j,z	
267	17923	AA892843	f	
268	22871	AA892859	m	
269	9053	AA892861	p,v,General	
270	16482	AA892940	w	
271	12020	AA893035	j.y	
272	3863 13332	AA893060 AA893080	General i,General	
274	21305	AA893082	General	
275	16591	AA893191	j,z	
276	17447	AA893192	General	
277	3876	AA893205	n	
278		AA893230	General	
79		AA893242	0	Fatty acid metabolism
280	16168	AA893280	i,z,General	Tany and melopolom
281	3886	AA893289	j,m.y	
82		AA893327	У	
283	17800	AA893436	cc	
284			h	
285			x	
286	22731	AA893743	d	
				Aminoacyl-tRNA biosynthesis, Glycine,
287			v 1	serine and threonine metabolism
288			k	
89			d	
			n	
		AA894027	L	
			×	
93			d	
94		AA894297 AA894318		
		AA894318 AA899113	i .	
			u	
			w	
			9	
			aa	
		AA899590	90	

TABUE 25	PATHIMANY			Aliy, Dodketino, 44921-5099W Dog, No. 1793997
Dillen	Man (Mar	Conflorit Acel Ref. Seg. ID No.	Model Gode	
301	4661	AA899709	t,General	
302	21354	AA899721	q	
303	17905	AA899762	General	
304	15231	AA899840	r	
305	23778	AA899854	c,k,x	
306	22060	AA899898	]b	
307	9114	AA899951	v,General	
308 309	8988	AA900148	1	
310	11841 4725	AA900247	v	1
311	4747	AA900290	cc	
312	20988	AA900465 AA900562	General	
313	3822	AA900863	0	
315	12420	AA901017	b,g,General b	
316	4849	AA901155	s	
317	3959	AA901338	General	
318	22846	AA923982	a,d	
319	4895	AA923999	k k	
320	21546	1AA924188	cc.General	<del></del>
321	24192	AA924210	n,General	
322	4933	AA924301	g.I,General	
323	4944	AA924405	I,General	
324	4948	AA924428	r	
325	4949	AA924432	General	
326	18891	AA924598	e	
327	22540	AA924630	v,General	Glyoxylate and dicarboxylate metabolism,Pyruvate metabolism
327	22541	AA924630	General	Glyoxylate and dicarboxylate metabolism,Pyruvate metabolism
328	14759	AA924766	k	metabolism, r yruvate metabolism
329	23123	AA924794	×	
330	4067	AA924813	g.p	<del> </del>
331	2888	AA924902	Ir,General	<del></del>
332	18130	AA924964	d	
333	23141	AA925019	ir .	
334	23195	AA925026	General	
335	21458	AA925049	f,aa,General	
336	5073	AA925061	jm	
337	14790	AA925087	o,General	
338	5089	AA925126	g	
339	23261	AA925145	k,General	
340	17363	AA925150	а	
341	23448	AA925167		1
342	23159	AA925318	e	
143	21500	AA925353	k	
44	22479	AA925418	t	
45	21151	AA925539	b	
46	16944	AA925541	f	
46 47	16945	AA925541	t	
48	17514	AA925554	bb .	Oxidative phosphorylation
49	5183	AA925662	i,General	
50	23189 23190	AA925844		
51	5252	AA925863	aa General	
52	22967	AA926051 AA926080		
53		AA926080 AA926129	h,cc b	
54 *		AA926129 AA926196	u.General	
55		AA926196 AA926247	u,General General	
		AA926262	General	
		AA926316	Ceneral ,	
		AA926365	aa	
			S	
			x,General	

TABLE 2: (	WANTHUAY		X3.	Aliy, Događi No. 4/921-5089W Dog. No. 1798897
Sequence D No.	dentifica	ConBank Ace/ Ref. Seq. ID No.	Model Gode	Paintege
361	11174	AA942745	g.o,w	
362	23005	AA942770	9	
363	21318	AA942774	General	
364 365	6615 6691	AA942889 AA943028	c	
366	22142	AA943026	P	·
367	21993	AA943149	v,General	<del>                                     </del>
368	9061	AA943508	General	
369	24390	AA943531	b.j.n.y	
370	13976	AA943532	f,s,x	
371 372	22248	AA943537 AA943558	cc,General m	
373	12673	AA943773	u,cc,General	1
374	13641	AA944154	u.cc,General	
375	2658	AA944155	lf .	
376	12770	AA944161	d	]
377	20903	AA944180	i,x	1
378	13507	AA944244	v	
379	15596	AA944353	General	
380	22681	AA944413	i,v,cc,General	
381 382	6711	AA944439	General	
383	14763	AA944481 AA944605	i,q,General	
384	12301	AA944727	li b	
385	7023	AA944792	d,m,aa	Purine metabolism,Pyrimidine metabolism,RNA polymerase
386	22536	AA944803	bb	The state of the s
387	22501	AA944811	19,1	
388	23967	AA944831	s	
389	26084	AA944922	1	
390	11974	AA944958	General	
391 392	22547	AA944970 AA945076	z,General	
393	14352	AA945181	General	
395	1798	AA945569	General	
396	22050	AA945604	i,aa	
397	19731	AA945615	d,o	
398	22612	AA945624	a,General	
399	22618	AA945656	aa	
400	11871	AA945679	V	
401 402	22656 6720	AA945818	General	
403	22351	AA945828 AA945867	p m	
404	22665	AA945877	1"	
105	24243	AA945950	ь	
106	22689	AA945962	General	
407	22692	AA945986	d	
108	22696	AA945996	c,General	
408	22697	AA945996	c,o	
409	22658	AA945998	w	
410 411	20832	AA946040	s	Oxidative phosphorylation
412	18337 825	AA946046 AA946108	General	
113	8639	AA946221	e,cc,General	
414	23237	AA946224	1	
115	15600	AA946250	o,aa	
116	19387	AA946275	t	
<b>1</b> 17 -	6351	AA946344	d	
118	22057	AA946348	e	
119	22069	AA946349	aa	
20	13962	AA946351	General	
121	18280	AA946361	9	
122	18944	AA946391	v	

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TABUEZ, F	ATHWAYS		# . A	Atty, Declari No. 4492 -510 Dos. No. 1798		
Sequence ID No.	liclentifier	GenBank Area Ras Seep Notice	Model Code	and the state of t		
424	21410	AA946408	t			
425	643	AA946439	o,y			
426 427	20736	AA946443 AA946448	x			
428	21878 21947	AA946451	r bb			
429	17499	AA946467	General			
430	1809	AA946503	x,General	<del> </del>		
431	23360	AA955104	f			
432	23471	AA955162	General			
433	9452	AA955206	b,General			
434	23512	AA955282	General			
435	22596	AA955298	General			
436 437	23283	AA955391	h General	4		
438	12404	AA955393 AA955408	b	<del> </del>		
439	23626	AA955540	aa			
441	17540	AA955914	bb	1		
442	24277	AA955962	General			
443	19939	AA955980	General			
444	24000	AA956005	i			
445	11050	AA956164	s,v			
446	498	AA956278	a,General			
447 449	23409	AA956294	9			
450	23773	AA956476 AA956530	f,x d			
451	23800	AA956534	aa			
452	23834	AA956659	cc.General			
453	16425	AA956688	f,x			
454	23847	AA956723	s			
455	23852	AA956746	j,l,m,z			
456	5989	AA956907	ig,s			
456	5990	AA956907	General			
457	23957	AA957123	u,General			
458	22357	AA957264	General			
459	23314	AA957270	g,i,m,p,v,cc, General	1		
460	23995	AA957292	a.b			
400	20000	PANSOT ZOZ	10,0	Aminoacyl-tRNA blosynthesis.Glycine.		
461	2702	AA957307	General	serine and threonine metabolism		
462	24040	AA957422	С			
463	12478	AA957554	m			
464	21306	AA957811	v			
465 466	24183	AA957889	t			
467	24178 17034	AA957905 AA963071	d e			
468	24053	AA963092	General			
469	2767	AA963201	o			
470	2022	AA963259	g			
471	2126	AA963488	d			
472	24246	AA963703	b			
473	2195	AA963746	General			
474	19370	AA963797	i			
475	2282	AA964147	e			
476	2284	AA964152	X			
478 479	2350 18830	AA964368 AA964496	g,General aa			
480		AA964541	aa b			
481		AA964554	General			
		AA964589	i.aa			
483		AA964613	t			
484	2424	AA964617	g			
485			General			
486	2457	AA964752	q,t			

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TABUE 2: I	PATIHWAYS	- 9.88 No.27 - 51 E-	A. 494	Any, dooren No. 44921-5 Dog. No. 176
Sequence ID No.	Mandiffer	GenBank Accil Ref. Seq. ID No.	Model Gode	Pathways
487	6778	AA964763	b	lo emitocipe
489	2468	AA964807	10	Sure announcement and artifer
403	2400	70.004007		Glutamate metabolism, Glutathione
490	2469	AA964814	w	metabolism
491	12561	AA964815	General	
492	2326	AA964892	aa	
493	21339	AA964962 AA964988	General	
494 495	21390 12569	AA965023	General	
496	2583	AA965166	bb	
497	15885	AA965207	r	
499	2905	AA996727	b,l,m,u,General	
500	2915	AA996782	u,bb	
501	2920	AA996813	d	
502 503	19525 2984	AA996856 AA997015	aa,General	<b></b>
504	2986	AA997015 AA997028	General	
505	3145	AA997237	General	
506	19249	AA997342	m	
507	16883	AA997345	General	
508	12598	AA997362	s	
509	3470	AA997374	P	
510 511	3245	AA997425 AA997608	General	
512	3020	AA997656	t	
513	3269	AA997800	x,aa	
514	3288	AA997877	f	
515	23992	AA998164	k,x	
516	17470	AA998264	b	
517	3773	AA998356 AA998422	General	
518 519	19623 3572	AA998516	x	
520	2782	AA998565	c	
521	26119	AA998576	i,r,w,General	
522	22737	AA998660	aa	
523	3696	AA999030	e	
524	3079	AA999169	k,x,General	
525 526	3081 3082	AA999171 AA999172	e,p,r General	Glutamate metabolism, Punne metab
527	17337	AB000717	k	The state of the s
528	1535	AB000778	a	
529	1382	AB002406	k	
530	20184	AB003753	d	
531	4312	AB010635	c,i,j,k,y,z	
532	21666	AB012214	lk .	Methionine metabolism
533 534	15772	AB015645 AF013144	lg h	
535	1582	AF015911	h,z	
536	11483	AF020618	u,cc,General	
537	20295	AF024712	aa	
538	19077	AF030358	y,z	
539	23044	AF034218	General	
540	25178 1564	AF035955 AF035963	x,bb,General	
541 542	8426	AF035963 AF036335	If	
543	21817	AF036537	k	
544	21145	AF038571	General	
545	22602	AF044574	General	
546	13464	AF047707	h	
547	24024	AF052695	×	
548 549	12259 4589	AF061266 AF062389	h	
550	16007	AF062594	y,z	

T/IID/IIE	***********			
MARRIES 1	AMELWAYS			Ally, Dockel No. 4/1921-90 Dock No. 1799
Sequence ID No.	klantifier	ConBant: Accil Ref. Stop. ID No.	Modal Codo	Pathways
551	15761	AF062741	u	premiuelye.
552	17426	AF073839	P	
553	18615	AF074608	s	
554	15797	AF084205	f	
555 556	12932	AF102552 AI007649	s x	
557	22733	AI007668	<del>lî</del>	
558	22746	AI007672	r	
559	24109	AI007725	General	
560	15848	A1007820	n,v	
561 562	6804	AI007857 AI007877	General	
563	20099	AI007893	f.u	
564	11368	AI007948	d	
565	15849	AI008074	h	
566 567	3121 16646	AI008160 AI008190	General	-
568	12683	AI008190	lx	
569	22018	AI008309	Ь	
570	23917	AI008441	n	
571 572	22599	AI008458 AI008578	General p.General	
573	14405	AI008578	r,x	
574	4086	AI008629	×	
575	3808	AI008643	i,v,General	
576	3931	AI008697	laa	
577 578	7785 16701	AI008758 AI008838	q	
579	21789	AI008930	lk .	
580	21895	AI008971	General	
581	410	AI008974	i,aa,General	
582 583	21632	AI009167 AI009168	General	
584	22801	AI009108	General	
585	11876	AI009321	cc,General	
586	2506	AI009341	General	
587	6382	A1009362	General	
588 589	19275	AI009427 AI009460	k x	
590	4154	AI009467	Îg	
591	3464	AI009589	cc	
592	3926	AI009592	e	
593 594	19358 22545	AI009675 AI009747	G G	
595	15089	AI009747 AI009752	cc,General	
596	5458	AI009756	h	
597	6844	AI009770	e,r,cc	
598	15627	AI009810	99	
599 600	22619 7857	AI009825 AI009898	d , i,l,m,z	
601	13259	AI009898	lr.	
502	21105	AI010067	General	
603	24627	Al010102	aa	
504 505	12716	AI010178	General	
505 506	18757 2912	AI010216 AI010220	aa,General	
607	3316	AI010220	t t	<del></del>
508	15644	AI010256	General	
609	657	AI010262	b	
610	3271	AI010303	bb	
611	11081	AI010407	100	

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TABUEZ: U	PATHWAYS	· 持續報		Any, Poeter No. 44921-50 Poe. No. 179
Seguence ID No.	ldentiter	ConBank Acci Rof. Soc. ID No.	Model Gode	Pathways .
614	17524	AI010568	a.j.y.General	
615	6946	AI010642	n	
616 617	23509	AI010962 AI011285	aa	
618	13855	AI011361	6	
619	21779	AI011380	cc	1
621	12534	Al011460	cc	
622	12629	AI011492	e,f	
623	735 3941	AI011560 AI011598	General	<del> </del>
624 625	17550	AI011598	j,General	<del> </del>
626	10636	AI011634	ie.	<del> </del>
627	3995	AI011678	General	1
628	16112	AI011706	h	
629	13354	Al011757	c	
630	12745 18684	AI011799 AI011812	icc t	
631 632	4205	AI011982	b	
633	6518	AI012114	General	<del> </del>
634	17407	AI012145	General	1
635	13093	AI012177	r	
636	15395	AI012216	f	
637	21796	Al012221	d,General	
638 639	3981 6606	AI012235 AI012308	i,General	
640	3417	AI012337	w	
641	24200	AI012356	b,t,General	
642	7471	AI012379	cc	
643	7247	AI012438	9	
644	7127	AI012464	p,General b	
645 646	3304 2311	Al012471 Al012485	aa	
647	20817	AI012589	g.n.q	Glutathione metabolism
648	3493	Al012590	v,General	
649	8975	AI012613	General	
650	11335	AI012619	j	
651	21409	AI012637	General	
652 653	8476	AI012638 AI012647	w	
654	4232	Al012958	e,p,General	
655	23128	AI013011	General	
656	20086	AI013260	General	
657	11969	Al013273	k	
658	26147	AI013387	aa	
659 660	19722	AI013437 AI013508	p k	
661	6674	AI013568	General	1
662	23145	AI013647	o,t	
663	15130	AI013676	w	
664	7274	AI013715	aa	
665	7276	AI013730	e	
666 667	7278 22592	AI013738 AI013740	y,z,aa s,x,bb,General	ļ
668	16584	AI013740	w	
669	24143	AI013804	i.i	
670	15928	AI013829	a,General	
671	21950	AI013861	J	Valine, leucine and isoleucine degrada
672	3260	Al013875	t .	
673 674	2708 8585	AI013882 AI013886	d,q	
675	7299	AI013886	p,r,t,General	
676	15904	AI013971	General	
	12781	AI014023	w	

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TABLE 2: F	AYAWAYA	in a series		Alty, Dodiet No. 44924-5089.
17.5 1937	T			Doc. No. 179339
Sequence ID No.	Mandiffer	Gendenk Acel Ref. Seq. ID No.	Modal Gode	Pathways
678	19372	AI014135	aa	
679	4241	AI014140	w	
680 681	15247 7315	AI014169 AI028831	C,U	
682	16631	AI028856	General	
683	23297	AI028953	x	
684	11326	AI029015	b	
685	2866	AI029058	n,y	
686	12812	AI029126	General	
687 688	17602 7392	AI029156 AI029185	ρ aa	ļ
689	6517	AI029163	d,k,x	
690	7639	AI029292	b	
691	3874	AI029428	i,General	
692	12819	AI029437	1	
693	7452	AI029466	[	-
694 696	7493 7537	AI029608 AI029829	o,General	ļ
697	2310	AI029629 AI029969	v Seneral	<del> </del>
698	7585	AI030023	1×	
699	7586	AI030024	b,n	1
700	14492	AI030091	cc	
701	10673	AI030134	f	
702	7615	AI030163	lo,r	
703 ·	2370 7681	Al030179 Al030449	General	
705	11559	AI030449	General	
706	7665	AI030668	t,bb	l
707	24222	AI030704	k	
708	10740	AI030743	h	
709	10742	AI030773	e	
711 712	16169 19527	AI030932 AI030991	General	
713	22614	AI031004	ir	
714	3167	AI031012	e	
715	5350	AI043611	a	
716	7858	AI043654	t	
717	10784	AI043678	d	
	9180 7867	AI043694 AI043695	aa	
	7584	AI043695	General	Glutamate metabolism,Purine metabolism
	7895	AI043724	le	
722	7903	AI043805	General	
	7913	AI043849	cc	
724	3899	AI043904	1	
	6766	AI043914	f	
	10818 7956	AI043990 AI044018	g,l,m,General	
728	5393	AI044170	P	
	5398	Al044177	q	
730	5425	AI044237	a,d	
	8692	AI044247	r	
	5430	AI044253	1	
	5461 5464	AI044338 AI044345	g,p,General	
		AI044345 AI044347	aa .	
	2695	AI044396	b	
38	5494	AI044425	General	
		AI044588	j,m	
		A1044688	9	
		A1044794	General	
		AI044836 AI044864	n '	

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pysjus???	Windowst's		The second	Apr Browns No. 1945, 1868/10 Dos. No. 1793397		
Sagranca L La	(dentifier	GenBank Acel Ral, Sen, 10 No.	Model Gode	Juliusys		
745	5630	AI044869	]f			
746	5634	AI044883	General			
747 748	4047 5654	AI044947 AI044976	l,m w			
749	5684	AI045056	r			
750	19235	AI045074	General			
751	5689	AI045075	i,aa,General			
752	5711	AI045151	General			
753 754	19237 9964	AI045153 AI045161	C			
755	5735	AI045223	li .			
756	5474	AI045477	a,General	1		
757	5811	A1045502	d,e			
758	5819	AI045537	General			
759 760	5839 6808	AI045594 AI045600	s			
761	17755	A1045608	ly v			
763	10020	AI045632	a			
764	5855	AI045669	General			
765	5881	AI045789				
766	5897	AI045862	General			
767 768	7540	AI045866 AI045882	o,t,General			
769	5329	AI045970	ID			
770	15093	AI058285	d			
771	8002	AI058304	i			
772	8017	Al058341	ic .			
773 774	6828 8177	AI058359 AI058603	General			
775	3090	AI058730	laa			
776	10093	AI058746	g			
777	8143	AI058759	General			
778	18659	AI058762	lf			
779 780	8163 4789	AI058837 AI058889	General			
780 781	8221	AI058889 AI059061	General			
782	10159	AI059147	d			
783	8245	AI059154	b			
784	8283	AI059290	n			
785	8314	AI059386 AI059444	g,General			
786 787	10200	AI059444 AI059519	s			
788	18359	AI059675	n			
789	10281	AI059947	b,t			
790	8494	AI059968	aa			
791	8495	AI059971	General			
792 793	10289	AI059974 AI060053	General			
794	8548	AI060033	k			
795	8565	AI060236	1			
'96	18322	AI060279	i,y,z			
97	8745	A1069939	r			
798 799	8785 17506	A1070067	cc			
99	9067	AI070068 AI070087	General			
301	3551	AI070122	e			
302	4967	AI070179	k			
03	18	AI070195	General			
104		AI070314	General			
105 106		AI070330 AI070336	b,cc			
107		AI070336	m			
308		AI070419	aa 1			

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TABLE2: F	PATIFIKVALYS	h h	<b>∳</b> ₩ ↓	Alily, Dockel No. 4/1921-5039// Doc. No. 179339/
Saguence ID No.	Mandiffiar	GenBank Acel Ref. Seq. ID No.	Model Code	Pathweys
809	14424	AI070421	I,p,General	
810	10434	AI070497	General	
811 812	8927 8946	AI070523 AI070611	q	
813	8950	AI070621	- W	
814	8972	AI070673	General	
815	8981	AI070715	bb	
816 817	26184 3007	A1070784 A1070824	li,l w	
818	8999	AI070824	P	<del> </del>
819	10477	AI070868	e,f	<del> </del>
820	24301	Al070911	k	
821	8721	Al071024	General	
822 823	9212 1831	AI071098 AI071137	c x	
824	11005	AI071137		1
825	9104	AI071173	i,m	<b>†</b>
826	9583	AI071185	General	
827	9644	AI071410	c	
828 829	16058	AI071490 AI071509	General f,o	Sphingoglycolipid metabolism
831	5695	AI071566	bb	<del>                                     </del>
832	9671	AI071568	w	<u> </u>
833	22929	AI071578	General	1
834	9673	AI071581	General	
835 837	9699 9799	AI071646 AI072008	General q,y,z	
838	9808	AI072006	d d	<b></b>
839	22796	AI072213	General	<del> </del>
840	9271	AI072405	v	
841	10869	AI072425	w	
842 843	21797 9306	Al072439 Al072521	General	<del></del>
844	9312	AI072521	1	
845	10893	AI072559	×	
846	1501	AI072634	cc,General	
847	6548	AI072658	General	
B48 B50	9363 9409	AI072695 AI072841	d n	
B51	9410	AI072842	iw .	
852	9468	AI073021	General	
853	9518	AI073223	f	
854 855	11183 9190	Al100768	t e	Nitrogen metabolism
356	2029	AI100835 AI100842	P	
357	5687	Al101006	e	
358	15192	Al101099	g,cc	
859	17399	Al101157	0	
360 361	9339 6321	AI101160 AI101256	I,m,o General	
962	5421	AI101270	General	
863	11910	Al101323	General	
364	23140	AI101608	e	
365	4119	Al101901	General	
366 367	16324 18642	AI102009 AI102023	b	
967 968		AI102023 AI102044	o a	
		AI102055	h	
370	6544	Al102064	c	
		AI102248	w	
		AI102318	e,q	Outdoor to the last
				Oxidative phosphorylation
		AI102505 AI102519	g.j,s c,k	Oxidative phosphorylation

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TVABLUE 2: T	PATHWAYS	A CITY	F W 1919	Ally, Docketho, 44921-50890 Doc, No, 1798397
Sequence ID No.	Mentifier	GenBenik Acel Ref. Seq. ID No. 1	Model Gode	100000000000000000000000000000000000000
875	5967	AI102520	у	
875	5969	AI102520	p,w	
876 877	11563	AI102560 AI102562	General	
878	19769	A1102562	b,g,n,p,v	<del> </del>
879	22487	AI102578	General	
880	19011	Al102618	General	
881	23837	Al102620	q,t	
882 883	23538	AI102727	g,General	
884	17234 5891	Al102741 Al102745	C	
885	6796	AI102745	General	
886	8837	AI102849	o,p	
887	15861	AI102868	li "	
888	3533	AI102877	9	
889	13222	Al102977	General	
890	6806	AI103018	o,u	
891 892	10659 17400	AI103059 AI103097	w,cc,General	
893	3584	AI103106	e x,aa	·
894	13298	AI103143	ir.	
895	15981	AI103150	i,x	
896	3475	AI103245	w	
898	23619	AI103314	Р	
899	24181	AI103320	e	
901 902	4355 7622	Al103410 Al103472	General	
903	20918	Al103472	n	
904	21579	Al103572	General	
905	2222	Al103631	0	
906	2752	AI103641	е	
907	4856	AI103708	1	
908	8990 15942	Al103719	i,m,y,z	
909 910	22885	AI103738 AI103828	e,General	
911	15853	AI103841	x	
912	15050	Al103911	j.y	Oxidative phosphorylation
913	12376	Al103939	u	
914		Al103947	o,y	
915	20833	AI104035	f,q	Oxidative phosphorylation
916	7010	Al104099	w	
917	22101 22833	Al104251 Al104258	General	
919	22211	AI104279	g.m	
920	10720	Al104296	9,	
21	15416	Al104340		
922	10991	AI104342	a	
23	18831	AI104357	Р	
24	7223	AI104373	е	
25	23574 18509		e,g,s	Oxidative phosphorylation
27	11680		q v	
28			w	
29			r	
30	15377	Al104821	o,cc	
			General	Oxidative phosphorylation, Type III protein
32		AI104953	o,s	secretion system
			n,General	
34			bb	
			g bb.General	
			o,s	

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TABLE 2:	PATHWAY		24 K	ATTY, DOCTOR NO. 44924 Doc. No. 1
Sequence ID No.	Mandiffer	CanBant: Accel Ref. Seq. ID Mo.	Yorkel Cooks	Parlimenys
938	7700	AI105383	cc,General	
939	13343	AI105398	u	
940	22931	AI105417	e,General	
941	23596	AI105435	bb	Fatty acid metabolism,Lysine
942	15893	AI105465	io io	. degradation, Tryptophan metabolis
943	12660	AI111492	G	<del> </del>
944	4479	AI111599	General	
945	24211	AI111853	k	
946	2539	AI111960	r	
947	5729	Al111990	k	1
948	4049	Al112012	i,q.u,General	1
949	12908	Al112043	-	
950 951	12937	AI112161 AI112462	General	<del> </del>
952	3713	AI112402	b	<del> </del>
953	12921	AI112636	General	<del> </del>
954	12965	AI112926	General	]
955	7499	Al112986	General	
956	4969	AI113008	r	
957	11817	Al136295	ſ	
959	11165	Al136372	C	
960	4045	Al136460	cc	
961	12782	Al136493	k	
962 963	6850 20920	AI136665 AI136891	h	Purine metabolism, Pyrimidine met
964	6552	Al137062	p,v	
965	22722	Al137211	1	
966	13111	Al137224	o,General	
967	15969	Al137302	е	
968	14349	Al137303	d	
969	9166	Al137406	General	
970	9525	Al137516	r	
971 972	6638 7414	AI137579 AI137586	General	
973	11321	AI137752	z	
974	23473	Al137932	1	
975	13158	AI137932	li .	1
976	13467	AI138034	cc	
977	11377	AI138105	У	
978	6790	AI144801	d,h	
979	6506	Al144919	j.l.y	
980	8027	AI144958	ļi.	
982	14458	Al 14 5095	General	
983 984	7476	AI145202	9 e	
985	17545	AI145384 AI145385	r	
986	4194	AI145387	r	
987	8634	Al145722	9	
988	8339	Al145761	y,General	
989	2059	AI146005	h,General	
990	23224	AI146033	0	
991	5232	AI168942	bb	Valine, leucine and isoleucine degra
992	18472	Al168975	u	
992	18473	Al168975	U	
993	13235	Al169020	r	
994		Al169115	o,y,General	
995 996	17386	Al169144	0	
996	10984 8205	AI169156 AI169176	0,u	
998		AI169175 AI169177	e	

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TABLE 2	PATEWAYS		1900	Aliy. Docket No. 44428441 Doc. No. 179
Sequence D No.		GentBentk Acel Refl, Geop. ID No.	Model Gode	Palliments
1000	22661	Al169265	s.z	Oxidative phosphorylation, Type III preserved on system
1001	13239	AI169278	g.j.l.y.z	
1002	24162	AI169279	m	
1003	16879	AI169284	0	
1004	13240	AI169289 AI169311	cc	<del> </del>
1006	5931	Al169324	lb	<del> </del>
1007	20891	AI169337	d	<del></del>
1008	11979	AI169365	cc	
1009	10947	AI169372	s	4
1010	20697	Al169494	o,u	
1011	8234	AI169517	Z	
1012 1013	18343	Al169648 Al169655	l.m	<del> </del>
1013	24146	AI169668	i),m	<del> </del>
1015	22575	AI169728	ir .	<del>                                     </del>
1016	804	AI169756	cc	
1017	8213	AI169883	P	
1018	3916	AI169947	i,bb	
1019	3733	AI170053	u,General	
1020	14179	AI170224	cc	
1021	11406	AI170263	r	
1022 1023	3547 11524	AI170279 AI170340	General	
1023		Al170363	j,y,z e,i	
1025		AI170525	li li	
1026	22524	AI170542	lh .	
1027	24048	AI170570	a.g	
1028	5968	AI170692	y,aa	
1029	9757	AI170693	b	
1030	18905	AI170770	e,s	
1031	16170	AI170894	<u> </u>	
1032 1033	7089 17591	AI171185 AI171354	b	
1034	13285	Al171354 Al171361	h	
1035	4428	AI171362	a	Oxidative phosphorylation, Ubiquinone biosynthesis
1036		Al171369	w	1
1037	23253	Al171448	0	
1038		AI171492	m,General	
1039		AI171542	r,s	
1040 1041		AI171587 AI171676	!	
1041		AI171692	k	
1042		Al171794	i	
1044		Al171800	cc	
1045	23579	Al171802	v	
1046		AI171807	I,t	
1047		AI171844	s,y,z	Oxidative phosphorylation, Type III pro secretion system
1048		AI171916	m	
1049		AI171948	l,m	
1050 1051		AI172056	t .	
1051		Al172057 Al172102	a,q,bb b	
1052		AI172102 AI172103	m	
1054		AI172103	z	
1055		Al172184	n	
1056		AI172208	bb	
1057		AI172263	l,m	
1058	23313	Al172271	d	
1059		AI172272	General	

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Vabue 28 F	WITHWAYS		6	Atty, Docket No. 44921-5089 Doc. No. 17989
Sequence ID No.	lidentiijer	GenBank Acel Rall Seg. 1D No.	Model Gode	Pathways
1060	15382	AI172302	I,p,General	
1061	18689	Al172329	JI	
1062	17887	AI172414	0	
1063	3042	AI172447	General	
1064	17291	AI172491	bb	Citrate cycle (TCA cycle), Glutathione metabolism, Reductive carboxylate cycle (CO2 fixation)
1065	26222	AI172506	P	(CO2 iixabori)
1066	13095	AI172595	ir .	
1067	8795	AI172618	General	
068	6454	AI175342	j,l,m,y	
1070	4445	AI175466	x	
1071	3418	Al175475	m	
1072	18507	AI175551	bb	
1073	10217	Al175628	w	
1074	7262	AI175833	j,m,x	
1075	19004	AI175875	{r	
076	22352	AI175959	I,General	
1077	7022	AI176041	h,n	
078	21467	Al176061	t	
1079	18581	Al176160	General	
080	14159	AI176169	g	
1081	21742	Al176172	w	
082	10182	AI176185	v	
083	22765	Al176265	General	
084	6905	AI176275	а	
085	12999	AI176276	cc	
086	16438	AI176294	e	
087	21130	AJ176298	У	
088	3014	AJ176362	e	
089	15015	AI176363	r	
1090	19006	AI176393	×	
091	20001	Al176396	0	
092	12174	AI176435	j,m	
093	15191	AI176456	b,o,t,v,cc	
094	24236	AI176473	d,General	
095	16518	Al176546	General	
096	2161	Al176592	General	
097	12436	Al176610 Al176616	I.v.General	
			u	
099	18525	AI176792	a	
100	23449	AI176828 AI176839	General	
102	3580	AI176848	e General	
103	22103	AI176849	d.General	****
104	16036	AI176855	f	
105	15588	Al176916	General	
106	16917	Al176951	1	
107	16124	Al176963	cc	
108	15146	AI176969	b.General	
109	5786	AI177058	f	
110	2852	AI177059	c	
112	3156	AI177092	g	
113	14384	Al177096	a	Purine metabolism
114	13310	AI 177119	General	
115	24049	Al177341	g,p,s,u	****
116	15964	Al177360	o,General	
117	14989	AI177366	u	
118	7975	Al177374	aa	
119	3006	Al177395	k	
120	17570	Al177683	r	
121	9521	Al177706	b	
122	14425	AI177755	o.General	

TABLEZ: T	SYLAWHIVAYS	10 10 10 10		Affy, Docket No. 44921-5039V Doc. No. 1796307
Sequence ID Mo.	Monthfor	Conferil: Acrd Ref. Sec. 10 No	Model Gode	Pathways V
1123	10611	Al177790	.j,m	
1124	5356	AI177813	cc	
1125	11791	AI177843	General	
1126	14484	Al177867	General	
1127	5780 19184	AI177869	General	
1128 1129	6059	AI178025 AI178245	c,General	<del> </del>
1130	23248	AI178267	V Selleral	
1131	4073	AI178272	0	-
1132	7838	Al178291	e	<del></del>
1133	18996	AI178326	у	
1134	22488	AI178392	b	
1135	18800	Al 178504	n,p,aa	
1136	22197	Al178527	g,General	
1137	3401	Al178684	bb	
1138	17713	AI178700	m	
1139 1140	14874	Al 178735 Al 178746	v.General	
1141	18907	A1178746 A1178971	c v,General	
1142	20991	A1178979	-	
1143	5887	Al 179099	q,t	
1144	8477	Al179167	b,e,General	
1145	3348	Al179288	u,v	
1146	13608	Al 179314	e	
1147	8849	AI179315	g,p	
1148	13611	AI179378	v,General	
1149	15438	Al179399	m,x	
1150	13614	AI179407	e,t,General	
1151	15042	Al 179422	b,General i,General	
1152 1153	2768 24041	Al179481 Al179580	b,i	
1154	19822	Al179599	o.General	
1155	23270	Al 179601	g,General	
1156	15901	AI179605	e	
1157	16081	Al179610	g,i,p	Porphyrin and chlorophyll metabolism
1158	14564	Al179717	k	
1159	7918	Al179750	General	
1160	6647	Al179795	9	
1161	9097	Al179875	o,General	
1162	23989	Al179953	a	
1163	12899	AI179967	b	
1164 1165	1687 22569	Al179971 Al179979	c General	
1166	23514	A1179979 A1179986	o,General	Glycine, serine and threonine metabolism
1167	15892	Al179988	c,General	Styche, senire and threoline metabolism
1168	12402	Al180004	g	
1169	5443		General	***************************************
1170	5481	Al180170	General	
1171	24028	Al180239		
1172	17089	Al180281	g .	
173	3701	Al180306	aa	
174	3352	Al180334	m	
175	24368	Al180392	I,m	
1176	14337	AI180414	c .	
177	19080 22838		j.y.z	
178		Al227761	aa i,General	
180			General	
181	7324	Al227885	i	
182	23898		d	
183			n.w	
184			e	
185	14242	Al228197	General	

TABLE 28, P	WITHWAYS	中的性质。	1 1 1	ANN Docket No. 449214 Doc. No. 17
Seguence		GentBentk Accil	1	Personal In
DMo.	Mentifier	Ref. Sec. ID No.	Model Gode	Pelfoways
1186	16913	AI228236	lo	
1187	22915	Al228299	r	
1188	8917	AI228301	General	1
1189	15879	Al228313	r,General	
1190	13727	AI228326	o,General	
1191	6102	Al228335	General	
1192	13730	Al228356	a	
1193	13745	AI228494	b,cc	
1194	4217	Al228587	s	1
1195	16053	AI228596	cc	
1196	3557	AI228672	e	
1197	11605	Al228682 Al228728	e	
1199	13771	AI228848	g	
1200	5918	AI220046	r	
1201	8235	Al229036	k	1
1202	16203	Al229196	Îr .	<del>                                     </del>
1203	13826	AJ229304	a	1
1204	13144	Al229320	g	
	4640	Al229404	x,aa	1
1206	23563	Al229421	1	1
1207	15426	AI229497	s	
1208	15193	AI229508	bb	
1209	19243	AI229638	x	
1210	23078	AI229647	P	
1211	3099	AI229680	0	Oxidative phosphorylation, Ubiquinor biosynthesis
1212	19508	Al229698	bb	
1213	13977	AI229707	x	
1214	23983	Al229708	v	
	2688	Al229793	e	
1216	13874	AI229832	9	
1217	12587 20591	AI229979	General I.m	
1218	24042	AI229993 AI230002	a,b,d,General	
	13880	AI230002	u	
1221	17672	Al230074	d	Oxidative phosphorylation, Ubiquinor biosynthesis
	3652	Al230074 Al230113	General	biosynthesis
	18650	Al230113	aa	
	13025	AI230173	c	
	4280	Al230247	z	<del> </del>
	18528	Al230284	General	<u> </u>
1227	7084	Al230362	р	
1228	20895	Al230549	b,n	
1229	12961	AI230554	General	
	15636	Al230616	r	
	4121	Al230647	j,m	
1232	14388	Al230702 .	General	
1233	18529	Al230716	x,General	
		AI230724	General	
		AI230746	cc	
	4731	AI230773	e	
	14430	AI230798	c,k,x	Charactela biannathada
		AI230822	bb General	Glycoprotein biosynthesis
		AI231028	General k	
		Al231127 Al231140	D	
		AI231219	d	
		Al231391	k	
		AI231433	w	
		AI231465	aa	
1247		Al231506	General	

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TABLE2: F	ATHWAYS	1.000000	海の (f ) 人。	AT J. Doglol No. 44924-5139W Dog. No. 1793397.
DNo.	lt lantifier	GenBank Acc/ Ref. Seq. ID No.	Medal Gode	Pathways s
1248	8004	Al231532	j,I	
1249	15171	Al231792	g	
1250 1252	6193 14227	Al231797 Al231999	1	<del> </del>
1253	24501	AI232006	w,y,bb	
.200	1	1	g,q,z,cc,	
1254	3434	AI232014	General	
1255	19094	AI232021	n,General	
1256	14020	AI232076	d	
1257 1258	6726 11549	AI232157 AI232174	I,m	<del> </del>
1259	23125	AI232266	i,s	
1260	2085	AI232270	bb	<del> </del>
1261	2913	AI232272	0	
1262	14304	Al232281	9	
1263	15955	AI232294	u,bb,General	
1264	15122	AI232303	ly .	
1265 1266	4716 15246	AI232313 AI232332	t,u	
1267	24321	AI232332	0	
1268	16172	AI232341	d	
1269	11411	AI232346	h	
1270	19287	AI232379	f	pdgf
1271	5601	AI232461	n,General	
1272 1273	14051	AI232489 AI232490	I,m	
1274	11157	AI232490	oc c	
1275	8709	AI232534	0	
1276	20350	AI232552	j.v.y	
1277	14069	AI232631	e	
1278	4440	AI232643	w	
1279	17695	AI232784	le	
1280	15796 12467	Al232874 Al232924	General	
1282	12873	AI232924 AI232984	General	
1283	5355	AI233031	ir .	
1284	18794	Al233121	c	
1285	3823	Al233147	b,g,General	
1286	11967	AI233155	c,k,General	
1287		AI233182	d	
1288		Al233183 Al233191	9	
1290		Al233191	g.p.y	
1291		AI233195	v	
1292		Al233224	bb	
1293		AI233269	cc	
1294		AI233365	d	
		AI233407	General	
		AI233425 AI233433	d	
		AI233458	a,d	
		AI233494	u,aa	
		AI233530	General	
301		Al233570	General	Aminoacyl-tRNA biosynthesis, Arginine and
		AI233583	General	proline metabolism
		AI233602	General	Purine metabolism
		AI233712	ly	4.574
		Al233717 Al233729	General	
		AI233729 AI233740	g d.h.General	
		AI233743	g	
		AI233767	cc	

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TABLE 2: T	PATIFIXAYS	· "新"。	Wed to	AMY Docksina 44926-50390 Doc No. 1793397
Saguance ID No.	(Manifflar	ConBank Accel Roff, Stag ID No.	Model Gode	Pathways:
1310	7804	Al233771	b	
1311	13563	AI233773	e	
1312 1313	2154 16616	Al233818 Al234079	k,cc	
1314	13393	AI234100	a,d,General	
1315	7071	AI234162	r	
1316	14677	AI234620	General	
1317 1318	4443 22453	AI234629 AI234678	m b	
1319	23964	AI234748	t,General	1
1320	19581	AI234753	1	
1321	22152	Al234822	o,General	
1322	18942	AI234865 AI234939	d	Oxidative phosphorylation, Type III protein
1324	3875	AI234939 AI235047	o,General	secretion system
1325	19479	AI235135	o,General	
1326	14906	Al235192	9	
1327	14718	Al235210	e	
1328 1329	15004 6632	AI235224 AI235277	b,General v	
1330	14722	AI235277	x,z	
1331	1462	AI235585	u,General	
1332	21061	AI235631	I,m	
1333	14665	Al235646	m	tgf-beta
1334 . 1335 :	19940 5698	Al235689 Al235692	General	
1336	23745	AI235732	k	
1337	11164	AI235739	General	
1338	5212	Al235745	d	
1339 - 1340	14768	Al235912 Al235950	m .	
1341	3091	AI235950 AI236027	n,General	
1342	14861	AI236045	r	
1343	14862	AI236048	е	
	16943	AI236097	Р	
	8336 23230	AI236101 AI236146	V	
	22855	Al236150	e	
1348	14594	AI236152	ř .	
1349		AI236168	r	
	15051	Al236332	General	
	19298 10667		bb .	
		AI236397	í	
			aa	
			General	
			t,General	
			h,v j.y	
			o,aa	
360			t,General	
			9	
			e,General	
			n,v,w w	
			<del>m</del> 1	
367	18151	Al237212	o,General	
			t,General	
	11208	Al237586	z	
370		AI237713	i,k,aa	
	14842	AI237724		

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THE REAL PROPERTY AND ADDRESS OF THE PERSON NAMED IN COLUMN TWO IN COLUM				
VABUE 2: I	PANUANA	*****		Alily, Dockel No. 4421-5. Doc No. 179
Secuence ID No.	(dentifier	GenBank Accil Ref. Seq. ID No.	Model Gode	Pathwaya
1373	25840	AI638972	U	
1374	17108	AI639017	n	
1375	16676	AI639082	c,k,x	
1376	12400	AI639107	k	
1377	19952	Al639108	q.v	
1379	25907	AI639167	0,W	1
1381 1382	18533	AI639231 AI639233	n t,aa	<del> </del>
1384	15330	A1639285	General	
1385	20026	A1639354	o General	<del>                                     </del>
1386	25971	AI639365	r	
1388	19152	AI639387	u,General	
1390	18338	AI639422	у	
1392	20082	AI639488	i,m	
1394	20056	AI639504	a,bb,General	
1395	4713	AI639518	q	
1396	14332	AJ001044	bb	
1397	7602	AJ001929 AJ005424	k II	
1398	19867 116351	AJ011811	General	
1401	20116	AJ011969	I,General	
1402	17635	AJ223355	v,w	
1403	18686	D00729	q	Fatty acid metabolism
1404	5049	D10655	n,w	
1405	25257	D13623	j	
1405	15281	D13623	h	
1406	11434	D14014 D14076	cc x	
1408	1728	D16479	a	Bile acid biosynthesis, Fatty acid biosynthesis (path 2), Fatty acid metabolism, Phenylalanine metabolism, Valine, leucine and isoleu degradation
1409	3015		C,S,V,Z	degradation
1410	472		d.s.bb	
1412	16233	D29960	11	
		D30804	n	
1413	9029			
1413 1414	1485	D38222	y,z	
1413 1414 1415	1485 9135	D38222 D45247	y,z s	Proteasome
1413 1414 1415 1416	1485 9135 16354	D38222 D45247 D50564	y, <u>z</u> s u	Proteasome Cysteine metabolism
1413 1414 1415 1416 1417	1485 9135 16354 1884	D38222 D45247 D50564 D50695	y,z s u I,m,bb	
1413 1414 1415 1416 1417 1418	1485 9135 16354 1884 21147	D38222 D45247 D50564 D50695 D63772	y, <u>z</u> s u	Cysteine metabolism
1413 1414 1415 1416 1417 1418	1485 9135 16354 1884 21147 826	D38222 D45247 D50564 D50695 D63772 D82928	y,z s u I,m,bb General f	
1413 1414 1415 1416 1417 1418	1485 9135 16354 1884 21147	D38222 D45247 D50564 D50695 D63772 D82928	y,z s u I,m,bb General	Cysteine metabolism
1413 1414 1415 1416 1417 1418 1419	1485 9135 16354 1884 21147 826 25306	D38222 D45247 D50564 D50565 D63772 D82928 D84485 D84250	y,z s u I,m,bb General f	Cysteine metabolism
1413 1414 1415 1416 1417 1418 1419 1420 1421 1423 1424	1485 9135 16354 1884 21147 826 25306 18867 22543 12360	D38222 D45247 D50564 D50695 D63772 D82928 D84485 D88250 H31117 H31456	y,z s u i,m,bb General f u t r,v,General w	Cysteine metabolism
1413 1414 1415 1416 1417 1418 1419 1420 1421 1423 1423 1424 1424	1485 9135 16354 1884 21147 826 25306 18867 22543 12360 20514	D38222 D45247 D50564 D50695 D63772 D82928 D84485 D88250 H31117 H31456 H31489	y,z s u i,m,bb General f u t t,r,v,General w	Cysteine metabolism
1413 1414 1415 1416 1417 1418 1419 1420 1421 1423 1424 1424 1425 1426	1485 9135 16354 1884 21147 826 25306 18867 22543 12360 20514 11358	D38222 D45247 D50696 D50696 D50696 D63772 D82928 D84485 D88250 H33117 H31456 H31489 H3160	y,z s u i,m,bb General f u t r,v,General w h,j h	Cysteine metabolism
1413 1414 1415 1416 1417 1418 1419 1420 1421 1423 1424 1425 1425 1424 1426	1485 9135 16354 1884 21147 826 25306 18867 22543 12360 20514 11358 4360	D38222 D45247 D50564 D50695 D63772 D82928 D84485 D8485 D84485 H31117 H31456 H31489 H31610 H31813	y,z s u i,m,bb General f u t t,r,v,General w	Cysteine metabolism
1413 1414 1415 1416 1417 1418 1419 1420 1421 1423 1423 1424 1425 1426 1427 1427	1485 9135 16354 1884 21147 826 25306 18867 22543 12360 20514 11358 4360 9343	D38222 D48247 D50564 D50695 D63772 D82928 D84485 D88250 H31117 H31456 H31419 H31610 H31813 H32169	y,z s u l,m,bb General f u t r,v,General w h,j h bb,General	Cysteine metabolism
1413 1414 1415 1416 1417 1418 1419 1420 1420 1421 1423 1424 1425 1426 1427 1427	1485 9135 16354 1884 21147 826 25306 18867 22543 12360 220514 11358 4360 9343	D38222 D45247 D45247 D50965 D50965 D50965 D83772 D82928 D84285 D88250 H31117 H31456 H31489 H31456 H31813 H3269 H3363	y,z s u l,m,bb General f u t t,r,y,General w h,j h bb,General	Cysteine metabolism
1413 1414 1415 1416 1417 1418 1419 1420 1421 1423 1424 1425 1424 1426 1427 1428 1429 1430	1485 9135 16354 1884 21147 826 25306 18867 22543 12360 20514 11358 4360 9343 4386 4415	D38222 D48247 D50564 D50965 D50772 D82928 D8485 D88250 H31117 H31456 H31479 H31469 H31610 H31813 H3269 H33636	y,z s u l,m,bb General f u t r,v,General w h,j h bb,General	Cysteine metabolism
1413 1414 1415 1416 1416 1417 1418 1419 1420 1421 1423 1424 1423 1424 1425 1426 1426 1427 1428 1429 1430 1431	1485 9135 16354 1884 21147 826 225306 18867 22543 12360 20514 11358 4360 9343 4386 94415 15374	D38222 D45247 D50564 D50565 D63772 D8268 D8268 D84485 D84485 D84485 D84485 D841177 H31456 H31610 H31610 H31613 H3269 H33633 H33636 H33636	y,z s u l,m,bb General f t r,v,General w h,j h bb,General l h,w	Cysteine metabolism
1413 1414 1415 1416 1417 1418 1419 1420 1421 1421 1423 1424 1425 1426 1427 1428 1429 1430 1431 1432	1485 9135 116354 1884 21147 826 25306 18867 22543 12360 20514 111358 4360 9343 4386 4415 15374 17159	D38222 D45247 D50564 D50565 D63772 D69569 D63772 D69686 D64485 D64485 D64485 D64485 H31117 H31456 H31496 H31413 H31610 H31813 H32169 H33093 H33093 H33093 H33696 H34186	y,z s u l,m,bb General f u t t,r,y,General w h,j h bb,General	Cysteine metabolism
1413 1414 1415 1416 1417 1417 1418 1419 1420 1421 1423 1423 1424 1425 1426 1428 1429 1428 1429 1431 1431 1431 1431 1431 1431 1431	1485 9135 16354 1884 21147 826 25306 18867 22543 12360 20514 11358 4360 9343 4386 4415 15374 17159	038222  D45247  D56564  D56565  D583772  D82229  D84485  D84265  D84265  D84265  H31177  H31456  H31610  H31610  H32169  H32699  H330303  H330303  H330303	y,z s u l,m,bb General f t r,v,General w h,j h bb,General l h,w	Cysteine metabolism  Glycerollpid metabolism
1413 1414 1415 1416 1417 1418 1419 1420 1421 1421 1423 1424 1425 1426 1427 1428 1429 1430 1431 1432	1485 9135 116354 1884 21147 826 25306 18867 22543 12360 20514 111358 4360 9343 4386 4415 15374 17159	038222 045247 050564 0505695 063772 062526 064455 0645	y,z s u l,m,bb General f u t t,v,General w h,j h bb,General l h,w h	Cysteine metabolism  Glycerollpid metabolism
1413 1414 1415 1416 1416 1416 1417 1418 1419 1420 1420 1423 1424 1425 1426 1426 1427 1428 1428 1429 1430 1431 1431 1431 1433 1434 1435 1435	1485 9135 16354 1884 21147 826 25306 18867 22543 12360 220514 11358 4380 9343 4386 4415 1759 1759 1759 1759 1759 1759 1759	038222  D45247  D50564  D50566  D63772  D64485  D64485  D64485  D64485  D64485  D64485  D64485  D64485  D64485  D64485  D64485  D64485  D64485  D64485  D64485  D64586  H31486  H31486  H31486  H31486  H31486  H31486  H31486  H31486  H31486  H31486  J00767  J01678  J01678	y,z s u l,m,bb General f u t r,v,General w h,j h bb,General h,w h u,General	Cysteine metabolism  Glycerollpid metabolism
1413 1414 1414 1415 1416 1417 1418 1420 1421 1421 1422 1423 1424 1425 1426 1427 1428 1429 1430 1431 1431 1431 1431 1431 1431 1431	1485 9135 16354 1884 1884 25306 1886 25306 18867 22543 12360 20514 11358 4360 9343 4386 4415 15374 17159 16260 17284	038222 D48247 D50564 D50564 D505695 D68772 D68728 D68728 D68765 D68767 H31456 H31477 H31456 H31478 H31469 H31610 H32169 H32610 H32610 H32610 H32610 H32610 H32610 H32610 H32610 H32610 H32610	y.z. s u u,m,bb General f u t r,v,General w h,j h h,w h u,General f u t r,v,General w h,j h,c h t t f t h,w h t h t n	Cysteine metabolism

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VABLE 2: L	PATHWAYS	新作作量等	A Francisco	ANN, Poekenno, 44921-5069 Poe, No. 17988
Seguence ID No.	(dentifier	GenBank Accil Ref. Seq. ID No.	Model Gode	Paurzeys
1439		105101		Glutamate metabolism, Glutathione metabolism
1440	1247	J05181 J05510	j,l,m,s,y,z n,u,General	metabolism
1441	20149	K03243	q	
1442	17758	K03249	q	<del>]</del>
1443	381	L00124	w	
444	2048	L00382	k,x	
1445	10500	L04619	S	
1447	108	L14002	p	
1448	25366	L14003	t	
1449	109	L14004	c.p	
1450	20414	L14323	General	
1451	25369	L14937	<u>y</u>	
1452	16119	L16532	k lh	
453 453	25377 12058	L25387 L25387	in In	
1455	21146	L35558	General	
1456	106	L37203	lw l	
1458	13682	L38482	f,j,k,m,z	ļ
1459	6405	L38615	p	Glutamate metabolism, Glutathione metabolism
1461	15189	M11794	jn,v	
1462	17086	M13011	lj .	
1464	21053	M15481	10	
465	25405	M18330	j,l	
1466	25415	M19648	a	
1468	14967	M22366	w	
1469	20481	M22631	bb	
1471	15048	M24542	9	Oxidative phosphorylation
1472 1473	1224	M29853 M31931	m lu	
1474	15579	M33648	Jq	
1474	15580	M33648	lq	
1475	17211	M34331	g,n,q,v	
1476	20699	M35601	b.x,bb	
1476	20700	M35601	b,t,bb	1
1477	9223	M36151	lo	
1479	1585	M57728	j,m,y	
1480	24844	M58040	С	
1481	25057	M58495	h	
1482	457	M60666	d,General	
1483	1223	M75281	f	
1484	5733	M81855	i,k,aa	
485	4198	M83143 M83143	m	
1485 1486	24651	M83678	m k,x,z	
400	24031	M03076	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Histidine metabolism,Phenylalanine metabolism,Tryptophan
487	1430	M84648	General	metabolism, Tyrosine metabolism Arginine and proline metabolism, Urea cy
488	25467	M93297	c	and metabolism of amino groups
489	729	M95762	a,y	
490	23698	NM 012489		Bile acid biosynthesis, Fatty acid biosynthesis (path 2), Fatty acid metabolism, Poline, leucine and isoleucin metabolism, Valine, leucine and isoleucin degradation
430	123096	NM_012489	q	oegracation Bile acid biosynthesis,Fatty acid biosynthesis (path 2),Fatty acid metabolism,Phenylalanine metabolism,Valine, leucine and isoleucin
490	23699	NM 012489	a i	degradation

Section   Sect	TABLE 2:	PATHWAY	State of		Alfy, Docket No. 44924-5039W
		1	lo		Dos, No. 1793397
International Content   Inte	D No.	lidəmillilər		Model Gode	Pathways
1491   7062   NM_012495   q					
1491   17062					
Findose and mannose metabolism, Galactose   metabolism, Galactose   metabolism, Galactose   metabolism, Galactose   metabolism, Galactose   metabolism, Galactose   metabolism, Galactose   metabolism, Glyacorolist   metabolism, Glyacorolist   metabolism, Glyacorolist   metabolism, Glyacorolist   metabolism, Glyacorolist   metabolism, Glyacorolist   metabolism, Glyacorolist   metabolism, Galactose   metabolism,	1401	7062	NM 012495	10	
	1491	17002	14141_012495	14	
15511 NM_012498 U   metabolism_Pentose and glucuronate   1494   1495   24433 NM_01255   General   1495   24433 NM_012552   General   1496   24433 NM_012522   I   Arphine and profine metabolism_Urea or   1496   24433 NM_012522   I   Arphine and profine metabolism_Urea or   1497   14520 NM_012523   General   2497   14520 NM_012523   General   2497   1498   2498					
1492   15511				1	
1494   7427		1			
1495				General	interconversions, Pyruvate metabolism
1496					
1497   16520 NM, 012532   General   Porphyrin and chlorophyll metabolism   1498   25 NM, 012544   x, x   Hillidine metabolism, Phenrylstanine metabolism, Projecthan   1491   NM, 012545   General   metabolism, Projecthan   1500   23988 NM, 012551   I.v., General   metabolism, Tyroshie metabolism   1500   23989   NM, 012551   I.v., General   Gliconeogenesis, Phenrylalanine, brosine   1500   23989   NM, 012551   I.v., General   Gliconeogenesis, Phenrylalanine, brosine   1500   19408   NM, 012554   z   Gliconeogenesis, Phenrylalanine, brosine   1501   19408   NM, 012554   z   Gliconeogenesis, Phenrylalanine, brosine   1502   21836   NM, 012555   NM, 012555   X, z   and tryptophan biosynthesis   1502   21836   NM, 012555   NM, 012556   Gliconeogenesis, Phenrylalanine, brosine   1503   15895   NM, 012556   Gliconeogenesis, Phenrylalanine, brosine   1503   15895   NM, 012556   Gliconeogenesis, Phenrylalanine, brosine   1504   Gliconeogen					Arginine and proline metabolism, Urea cycle
1498   225   N.N. 012544   X.Z   Histoline metabolism, Phenylstainine metabolism, Phenylstainine metabolism, Phenylstainine metabolism, Phenylstainine metabolism, Phenylstainine metabolism, Phenylstainine metabolism, Phenylstainine metabolism, Phenylstainine metabolism, Phenylstainine phenylstainine, Phenylstainine					
1431   NM 012545   General metabolism, Phonylatanine metabolism, Typtophan 1500   23862   NM 012551   I.m., General metabolism, Typtophan 1500   23872   NM 012551   I.m., General metabolism, Typtophan 1500   23852   NM 012551   I.m., General metabolism, Typtophan 1500   23852   NM 012551   I.m., General metabolism, Typtophan 1500   The Company of the Company of					Porphyrin and chlorophyll metabolism
1499	1490	1225	INM_012044	12.2	Histidine metabolism Phenylalanine
1499					
1,000					
1500   23899					
1501   19407   NM 012554   z and tryptophan biosynthesis   1501   19408   NM 012554   x   z and tryptophan biosynthesis   1502   21836   NM 012554   n.s.y.z. and tryptophan biosynthesis   1502   21836   NM 012555   n.s.y.z. and tryptophan biosynthesis   1502   21836   NM 012555   n.s.y.z. and tryptophan biosynthesis   1503   n.s.y.z. and tryptophan biosynthesis   1503   n.s.y.z. and tryptophan biosynthesis   1504   25317   NM 012559   bb   n.s.y.z. and tryptophan biosynthesis   1504   25317   NM 012559   bb   n.s.y.z. and tryptophan biosynthesis   1504   25317   NM 012559   bb   n.s.y.z. and tryptophan biosynthesis   1504   6477   NM 012559   bb   n.s.y.z. and tryptophan biosynthesis   1504   6477   NM 012559   bb   n.s.y.z. and tryptophan biosynthesis   1505   11731   NM 012561   k   n.s.y.z. and tryptophan biosynthesis   1506   16025   NM 012578   r   1508   16025   NM 012578   r   1508   16025   NM 012578   r   1508   16025   NM 012578   r   1508   1509   1509   NM 012588   bb   1511   4450   NM 012593   bb   1511   4450   NM 012593   bb   1511   4450   NM 012593   bb   1511   4450   NM 012593   bb   1511   4451   NM 012593   bb   1511   4452   NM 012593   bb   1511   1453   NM 012593   bb   1511   1518   NM 012593   ax   1514   1519   NM 012593   ax   1514   1519   NM 012593   ax   1514   1519   NM 012593   ax   1515   16849   NM 012593   ax   1515   16849   NM 012593   ax   1515   16849   NM 012593   ax   1515   16849   NM 012593   ax   1515   16849   NM 012593   ax   1516					
1501   19407   NM 012554   z   Gliconeogenesis, Phenylalanine, tyrosinin 1501   19408   NM 012554   z   and tryptophan blosynthesis   1502   21836   NM 012555   k   Claudoceogenesis, Phenylalanine, tyrosinin 1502   21836   NM 012555   k   Carbon fixed framework   Claudoceogenesis, Phenylalanine, tyrosinin 1503   18895   NM 012558   g, a   Carbon fixed framework   Claudoceogenesis, Phenylalanine, tyrosinin 1504   Claudoceogenesis, Phenylalan	1500	23009	INM_012351	iv,Geriefal	Glycolysis /
19407		1			Gluconeogenesis, Phenylalanine, tyrosine
1501   19408   NM, 012554   n,8,y,z   and tryptophan blosymtesis	1501	19407	NM_012554	z	and tryptophan biosynthesis
19408 NM, 012554   n, s, y, z   and tryptophan biosynthesis					
1902   21836   NM 012555   K   Carbon fixation,Fructose and mannose metabolism (Spoot)sis / I		40.400		1	
Carbon fixation,Fructoes and mannose metabolism (Qiooy)sis 1   Carbon fixation,Fructoes and mannose metabolism (Qiooy)sis 1   Carbon fixation,Pyoyis 2   Carbon fixation,Pyoyis 2   Carbon fixation,Pyoyis 2   Carbon fixation,Pyoyis 2   Carbon fixation,Pyoyis 2   Carbon fixation,Pyoyis 2   Carbon fixation,Pyoyis 2   Carbon fixation,Pyoyis 2   Carbon fixation,Pyovis 3   Carbon fixation,Pyovis 3   Carbon fixation,Pyovis 3   Carbon fixation,Pyovis 3   Carbon fixation,Pyovis 3   Carbon fixation,Pyovis 3   Carbon fixation,Pyovis 3   Carbon fixation,Pyovis 4   Carbon fixation,Pyovis 4   Carbon fixation,Pyovis 4   Carbon fixation,Pyovis 4   Carbon fixation,Pyovis 4   Carbon fixation,Pyovis 4   Carbon fixation,Pyovis 4   Carbon fixation,Pyovis 4   Carbon fixation,Pyovis 4   Carbon fixation,Pyovis 4   Carbon fixation,Pyovis 4   Carbon fixation,Pyovis 4   Carbon fixation,Pyovis 4   Carbon fixation,Pyovis 4   C					and tryptophan biosynthesis
1503	1002	21030	11tm_012333	1	Carbon fixation Fructose and mannose
1594   25317   NM, 012559   bb		1			metabolism, Glycolysis /
1994   1997   1998					Gluconeogenesis, Pentose phosphate cycle
1904   6478					
1905   17731   NM 012561   k   1907					
1507   4254   NM 012594   a					
1902   NM   012578   r					
1508         15025         NM 012578         r           1509         15090         NM 012580         g,m         Porphyrin and chlorophyll metabolism           1510         15096         NM 012582         bb         Valine, leucine and isoleucine degradatio           1511         4459         NM 012592         bb         Valine, leucine and isoleucine degradatio           1511         445         NM 012592         bb         Valine, leucine and isoleucine degradatio           1511         445         NM 012593         Lb         Valine, leucine and isoleucine degradatio           1512         17198         NM 012593         a.x         Valine, leucine and isoleucine degradatio           1513         16749         NM 012593         a.x         Valine, leucine and isoleucine degradatio           1514         2628         NM 012503         x.         Carbon fixation,Pyruvate metabolism           1514         2629         NM 012603         x. General           1516         24568         NM 012503         General           1518         24568         NM 012630         General           1519         16533         NM 012831         k           1520         1844         NM 012835         General					
	1508				
15098					Pornhyrin and chlorophyll match: "
1511   4450   NM 012592   bb   Valine, leucine and isoleucine degradation     1511   4451   NM 012592   Libb   Valine, leucine and isoleucine degradation     1511   4452   NM 012593   Libb   Valine, leucine and isoleucine degradation     1512   17198   NM 012593   Libb   Valine, leucine and isoleucine degradation     1513   10749   NM 012593   Libb   Libb   Libb   Libb     1513   10749   NM 012593   Libb   Libb   Libb   Libb     1514   2529   NM 012593   Libb   Libb   Libb   Libb     1515   16849   NM 012593   Libb   Libb   Libb   Libb     1516   16849   NM 012593   Libb   Libb   Libb   Libb     1517   15540   NM 012593   General     1518   24568   NM 012593   General     1518   24568   NM 012593   General     1519   16553   NM 012614   Libb   Libb   Libb     1520   1844   NM 012637   General     1520   1844   NM 012642   Libb   Libb   Libb   Libb     1521   24568   NM 012642   Libb   Libb   Libb   Libb   Libb   Libb     1522   24568   NM 012642   Libb					r sypriyan and chlorophyli metabolism
1511	1511	4450	NM_012592	bb	Valine, leucine and isoleucine degradation
1512         171980         NM 012593         a.x           1512         17197         NM 012593         a.x           1513         16749         NM 012503         a.h         Carbon fixation,Pyruvate metabolism           1514         2629         NM 012603         General           1515         16849         NM 012608         n.O., d.           1517         15540         NM 012608         n.O., d.           1518         24568         NM 012630         General           1518         24568         NM 012630         General           1518         24568         NM 012630         General           1519         24568         NM 012630         General           1510         16533         NM 012637         General           1521         24688         NM 012634         General           1521         24598         NM 012642         General           1521         24535         NM 012645         a           1523         25435         NM 012649         b.cc           1524         9423         NM 012649         b.cc           1525         124466         NM 012679         x.bc.General           1526					Valine, leucine and isoleucine degradation
1512         17197         NM 012593         x           1513         16749         NM 012500         a,h         Carbon fixation,Pyruvate meliabolism           1514         2628         NM 012503         x, General           1515         2629         NM 012503         x, General           1515         16049         NM 012503         x, General           1516         24568         NM 012503         General           1518         24568         NM 012530         General           1519         18553         NM 012831         k           1520         1844         NM 012831         k           1521         24688         NM 012842         f           1523         18032         NM 012642         f           1524         3943         NM 012645         f           1525         24498         NM 012646         n         g           1524         3943         NM 012647         n         g           1525         24496         NM 012646         n         g           1526         710         NM 012647         n         g           1526         710         NM 012647         n         g					Valine, leucine and isoleucine degradation
1513   16749   NM 012600   a,h   Carbon fixation,Pynvate metabolism					
1514   2628   NM 012603   X, General     1514   2629   NM 012603   X, General     1515   16849   NM 012603   X, General     1516   1506   NM 012600   General     1516   1506   NM 012600   General     1518   24596   NM 012600   General     1519   16535   NM 012831   X     1520   1844   NM 012831   X     1520   1844   NM 012831   X     1521   24596   NM 012841   X     1522   16832   NM 012841   X     1523   1524   X     1524   1525   X     1525   1526   X     1526   X     1526   X     1527   X     1528   X     1529   X			NM 012600		Carbon fixation Pynyate metabolism
1514   2629   MM 012803   x,General     1515   16849   NM 012008   n,O,Q     1517   15540   NM 012820   General     1518   24568   NM 012830   General     1518   24568   NM 012830   General     1519   18553   NM 012831   k     1520   1544   NM 012831   k     1520   1544   NM 012831   k     1520   1544   NM 012831   k     1522   1684   NM 012831   k     1523   1544   NM 012831   k     1524   1544   NM 012831   k     1525   1544   1544   NM 012831   k     1525   1544   1544   NM 012847   g     1524   1542   NM 012849   b,Cc     1525   24466   NM 012854   n     1526   710   NM 012854   n     1526   710   NM 012879   x,bC,General	1514	2628	NM_012603	General	
1517   15540   NM 012820   General		2629	NM_012603		
1518   24568   NM 012530   General					
1518         24568         NM 012530         General           1519         18553         NM 012831         k           1520         1844         NM 012831         k           1521         24668         NM 012842         f           1521         24668         NM 012842         f           1522         18532         NM 012843         f           1524         18332         NM 012846         n           1524         9423         NM 012846         n           1524         9423         NM 012846         n           1525         24466         NM 012854         n           1526         710         NM 012879         x,bc General					
1519         18553         NM 072831         k           1520         1944         NM 072837         General           1521         24688         NM 072842         f           522         16803         NM 072845         a           523         25435         NM 072847         g           524         9423         NM 072849         b,cc           525         24496         NM 072854         n           526         7101         NM 072879         x,bc,General					
1520         1944         NM 012837         General           1551         24688         NM 012842         General           522         18632         NM 012845         a           9         25435         NM 012845         a           124         9423         NM 012849         b,cc           125         9423         NM 012849         b,cc           125         24486         NM 012854         n           126         7101         NM 012879         x,bc,General					
1522         18832         NM 012645         Ja           523         125435         NM 012647         g           524         9423         NM 012649         b,cc           525         24496         NM 012654         n           526         7101         NM 012679         x,bo,General	520	1844	NM_012637	General	
1523 25435 IM 012647 g 1524 9423 IM 012649 b.cc 1525 24496 IM 012654 n 1526 7101 IM 012679 x.bb/General				f	
1524 9423 NM 012649 b,cc 1525 24496 NM 012654 n n 1526 7101 NM 012679 x,bb,General					
526 7101 NM_012679 x,bb,General			NM 012654		
1527 24707 NM 012693 ii metabolism, i ryptopnan				x,bb,General	

			-168-	
TABUE!2	PATHWAYS	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Market Mark	ALTY, Doctot No. 449-21-503
			All and the second	Dog, No. 17909
Echous Byor	refilmetal .	ConBank Acci Rai Seq. ID No.	Model Gode	Pathwaya
1528 1528	1850	NM_012696	11	
1529	1603	NM_012696 NM_012697	General	
1530	1372	NM 012734	U	Aminosugars metabolism, Fructose and mannose metabolism, Galactose metabolism, Glycolysis / Gluconeogenesis, Starch and sucrose metabolism
1531	1478	NM 012744	bb,General	Alanine and aspartate metabolism, Citra cycle (TCA cycle), Pyruvate metabolism
1532	343	NM 012747	lh,t	Tors cycle, yiuvale metabolism
1533	8829	NM 012749	General	1
1534	20828	NM_012752	General	
1534	20829	NM_012752	I,General	
1534	20830	NM_012752	i,General	1
1535	15174	NM_012756	b	
1536 1537	21685 18068	NM_012760 NM_012762	j,m,n	<del> </del>
1537	1246	NM 012762 NM 012770	a.General	Purine metabolism
1539	1348	NM 012776	1	ar armo meraponami
1540	18135	NM 012791	w	
				Arginine and proline metabolism, Glycine serine and threonine metabolism, Urea of
1541	16947	NM_012793	p,bb	and metabolism of amino groups
1542	960	NM_012796	u	Glutathione metabolism
1543	260	NM_012798	f,u	
1544	556	NM_012803	d	
1545 1546	21729	NM_012804 NM_012816	General	<del> </del>
1546	24895	NM 012816 NM 012817	General	<del> </del>
1548	18109	NM_012817	u,General	1
1549	373	NM 012833	h,i,q,General	<del>                                     </del>
1550	2855	NM_012838	e	
1551	11136	NM_012839	- 5	
1552	20885	NM_012842	a	egf
1552	20884	NM_012842	a,bb	egf
1553 1554	18770	NM_012857	e	4
1554 1555	13151	NM_012861 NM_012862	a.r.General	
1556	24617	NM_012870	General	
1557	20945	NM 012875	Ja,v	1
1558	15872	NM 012879	o,r	
1559	495	NM_012880	z	
1559	494	NM_012880	c	
1560	23651	NM_012881	d,u,General	1
1562	19477	NM_012891	Iq.	B
1563 1564	7197	NM_012899 NM_012904	v,General f,r,cc,General	Porphyrin and chlorophyll metabolism
1564	7196	NM_012904 NM_012904	v,cc,General	1
1565	20202	NM 012909	b,r	1
1566	16581	NM_012911	c.j	
1566	16582	NM_012911	C	
1567	24431	NM_012912	General	
1568	18118	NM_012913	ρ	Oxidative phosphorylation
1569	6108	NM_012915	n	
1570 1570	20757	NM_012923 NM_012923	c,i,aa	<del> </del>
1571	2830	NM_012923 NM_012925	ļ <u>.</u>	
1571	2831	NM 012925	li-	<u> </u>
1572	1977	NM 012930	,	Fatty acid metabolism, Glycerolipid metabolism
1573	18694	NM_012931	i,l,m,z	
		NM_012935	in	

WBUEZ: P	ATHWAYS	2 在 2 <b>第</b> 45		Alty, Doctot No. 44921-0690 Doc. No. 17969
Sequence ID No.	(ම්කෝසිට්ක	Contant Acel Roll Seq. ID No.	Modal Goda	Politiwaysia
1575	9109	NM 012939	j.y.z	
1575	19398	NM_012939	aa	
1576	223	NM_012945	b,cc	
1577	15058	NM_012950	cc	
1579	19111	NM_012963	g	
1580	19374	NM_012964	x	
1581	2554	NM_012967	t	
1581	2555	NM_012967	t,cc,General	
1582	24526	NM_012973	C	
1583 1584	956 16417	NM_012976 NM_012991	c	
1585	17393	NM 012992	d	
1586	23544	NM 013013	s	
1587	1588	NM 013026	k	
1588	17894	NM_013027	m	
1589	18300	NM 013030	s,v,General	
1589	18076	NM 013030	g,s,z	
1589	18078	NM_013030	S	
1589	18077	NM_013030	e,s,z	
1591	730	NM_013040	w	
1592	17401	NM_013043	i,o,General	
1593	16684	NM_013052	General	
1594	14421	NM_013053	U	
1595	15254	NM_013058	k	
1596	14997	NM_013059	s,z General	Folate biosynthesis, Glycerolipid metabolis Folate biosynthesis, Glycerolipid metabolis
1596 1597	14996 25676	NM_013059 NM_013069	aa	Polate biosynthesis, Grycerolipid metabolis
1597	16924	NM_013069	0	
1596	24748	NM 013070	h,q	
1599	1529	NM 013082	d.General	
1600	1521	NM 013091	j,l,z,General	
1601	1685	NM 013096	c.aa	
1601	26150	NM 013096	c,i-	
1601	1688	NM 013096	p	
1601	1689	NM_013096	с.р	
1601	1684	NM_013096	c,s,aa	
1602	20886	NM_013097	u,x,bb	
1602	20887	NM_013097	u,x,bb	
				Galactose metabolism,Glycolysis / Gluconeogenesis,Starch and sucrose
1603 . 1604 .	1321	NM_013098	C	metabolism
1604 1606	15296 23709	NM_013102 NM_013113	l,m o,s,z,aa	<del> </del>
1606	23709	NM 013113	p p	
1606	23710	NM 013113	s	
1607	1976	NM 013118	u u	
1609	870	NM 013130	h	
1610	16650	NM 013132	u.General	
1611	650	NM 013134	h	Sterol biosynthesis
1611	651		hjj	Sterol biosynthesis
1612	1712	NM_013138	General	
1613	16982	NM_013144	o,v,General	
1614	21683	NM_013154	t,cc,General	
1614	21682	NM_013154	CC	
1615	3431	NM_013156	b,g,n	
1615	25567	NM_013156	v,General	
1615	3430	NM_013156	General	
1616	1309	NM_013159	w	
1616	1310	NM_013159	w	
1617 1618	21723 1314	NM_013174 NM_013181	w m	

NABUE 2: PANTAWAYS AUG. 177 Boc. No. 177					
Sequence ID No.	Mentifier	Conflorit Accil Late Say (Black)	Modal Gode	Penicelys	
				Fructose and mannose	
	1			metabolism, Galactose	
				metabolism, Glycolysis /	
1620 1621	1300	NM_013190 NM_013197	c	Gluconeogenesis, Pentose phosphate Glycine, serine and threonine metabo	
1621	16448	INM_013197	C	Fatty acid metabolism, Glycerolipid	
1622	20856	NM 013200	Ь	metabolism	
1623	397	NM 013214	10	metabolism	
1624	20864	NM 013215	g.n.y		
1625	20728	NM 013217	lv		
1626	1396	NM 013222	i -		
1627	815	NM 013224	w		
1628	18305	NM 013226	lv		
1	1.0000			Fatty acid metabolism, Propanoate	
			1	metabolism. Valine, leucine and Isoles	
1629	21078	NM 016986	d	degradation beta-Alanine metabolism	
1630	24649	NM_016988	v	Riboflavin metabolism	
1631	15239	NM 016989	q,w	THE SHE THE THE LABORITY	
1632	45	NM 016996	General		
	-		1	Fatty acid metabolism, Tryptophan	
1633	20714	NM 016999	lt	metabolism	
1000	120111		Ť	Fatty acid metabolism, Tryptophan	
1633	20713	NM 016999	le .	metabolism	
1000	1		1	Fatty acid metabolism, Tryptophan	
1633	20711	NM_016999	q,t	metabolism	
1000	20111		140	Fatty acid metabolism, Tryptophan	
1633	20715	NM 016999	q,t	metabolism	
1634	1698	NM 017000	e,n,p,General	Sterol biosynthesis	
1004	1000	11W_011000	e,r,p,ceneral	Glutathione metabolism.Pentose phos	
1635	1399	NM 017006	h,n,General	cycle	
1637	18989	NM 017013	in	Glutathione metabolism	
1638	21013	NM 017014	e,f	Glutathione metabolism	
1638	21015	NM 017014	e,General	Glutathione metabolism	
1639	11836	NM 017023	b		
1639	5475	NM 017023	b		
1639	25546	NM 017023	b.bb		
				Cysteine metabolism.Glycolysis /	
	1			Gluconeogenesis, Propanoate	
1640	17807	NM 017025	i.General	metabolism,Pyruvate metabolism	
1641	24597	NM 017040	u		
1642	24696	NM 017048	f.j,z		
1643	24695	NM 017049	Ju Ju		
1644	20876	NM_017050	i.n.z		
1645	910	NM_017059	f,i,m		
1645	912	NM 017059	fr		
1646	1946	NM 017061	h .		
1646	1942	NM 017061	t.General		
1646	1943	NM 017061	i		
1647	6062	NM 017066	d		
1648	6654	NM 017068	w		
1649	11153	NM 017073	9	Glutamate metabolism, Nitrogen metal	
1650	923	NM 017076	General	onicopolion, waagen nieta	
1651	1523	NM 017079	S		
1001	1.725	011013	¥	Androgen and estrogen metabolism.C	
1652	23660	NM 017080 :	s	Steroid hormone metabolism	
	2000	317000	ř	Androgen and estrogen metabolism.C	
1653	275	NM 017081	b,d,General	Steroid hormone metabolism	
1654	16211	NM 017082	j,s,z	Colore normone metabolism	
1655	1552	NM 017084	li e	Glycine, serine and threonine metabol	
1655	1550	NM 017084	t i	Glycine, serine and threonine metabol	
1656	22552	NM 017087	a,k,x	organic, Jennie and preciming (18/200)	
1657	8888	NM_017090	m :	Purine metabolism	
	10887	NM_017090 NM_017094	a.General	r utilite interaculisin	
1658					

TABLE 2: F	MAY IN WHAT YOU			AVD A PARAMENTAL ALADON A
Marie & F	WILLIAM CONTROL			Ally, Doctor No. 479214 Doc, No. 17
Sequence ID No.	(dentilier	GentBentk Accel Ref. Stop, ID No.	Model Gode	
1659	4393	NM_017101	a,y	
1660 1661	24770	NM_017111 NM_017113	d	
1661	20745	NM 017113	a	<del>                                     </del>
1662	1375	NM 017122	w	
1663	12903	NM_017124	k	
1664	24885	NM_017138	r	
1664 1665	24886 15363	NM_017138 NM_017147	d,q n,u	
1666	13392	NM_017148	u,General	<del>                                     </del>
1667	5351	NM 017150	9	<del> </del>
1668	16954	NM_017151	a,n	
1669	21643	NM_017152	9	
1670 1671	1694 17104	NM_017153 NM_017160	a,q bb,General	
1671	17104	NM 017160	u Seneral	<del> </del>
1671	17107	NM_017160	d,e	
1672	17686	NM_017165	n,q	Glutathione metabolism
1673	20702	NM_017166	c	
1674 1675	3513 19031	NM_017177 NM_017180	v.General	Glycerolipid metabolism
1676	15437	NM 017187	X,Z	
1676	15433	NM_017187	у	1
1676	15434	NM_017187	x,z	
1677	24437 1542	NM_017190	P	
1678 1679	14695	NM_017193 NM_017202	j,l,m,z q,s	Oxidative phosphorylation
1679	14694	NM 017202	s,z	Oxidative phosphorylation
1680	1428	NM_017213	m	
1681	1622	NM_017216	g.j.s,z	
682 682	13642 19976	NM_017220	v w	
	1510	NM_017220 NM_017224	General	
	1811	NM 017228	J.I.m.z	
	17563	NM_017245	a,c,e,q	
	17502	NM_017248	r	
	17501 19	NM_017248 NM_017258	v.General	
	15300	NM 017259	i.v.cc.General	
500	15500	1411_017200	I,m,v,aa,cc,	
689	15301	NM_017259	General	
689	15299	NM_017259	I,y,cc,General	
	15224 3987	NM_017264 NM_017280	d bb	Proteasome
	1447	NM_017280 NM_017281	1	Proteasome
	15535	NM 017283	s,bb	Proteasome
	12349	NM_017290	General	Oxidative phosphorylation
	15819	NM_017298	p .	
	23825 23826	NM_017299 NM_017299	v	
	14003	NM_017299 NM_017305	i,l,m,y,z	Glutamate metabolism, Glutathione metabolism
698	26109	NM_017306	q,s	
		NM_017306	g,t	Fatty acid metabolism
		NM_017314	g,s,aa	
		NM_017320 NM_017326	t u	
		NM_017326 NM_017334	cc	
		NM 017340	q,s	Fatty acid metabolism
	16150	NM_017340	a	Fatty acid metabolism
		NM_017343	r,u,General	
		NM_017343 NM_017350	b,General b	

7. 40	000000000	eration in the same		Attly, Docket No. 449.21-5089 Doc. No. 17988
Sequenco ID No.	Mediller	CarBank Acel Roll Sag. 10 No.	Model Gode	Pathways 2
1706	1581	NM 017365	General	
1707	455	NM 019131	×	
1707	456	NM 019131	y.z	3
1708	4532	NM 019134	b	
1709	1608	NM 019166	i.y.z	1
1710	7489	NM_019169	c,General	
1711	17066	NM 019170	p	Prostaglandin and leukotriene metabolis
1712	23924	NM_019174	bb	Nitrogen metabolism
1713	24019	NM 019186	t	
1714	22063	NM_019195	d	
1715	2079	NM 019220	j,k,z	
1716	16284	NM 019229	l,m	
1717	1985	NM 019233	b,cc	
1718	15503	NM 019237	k,x	
1718	15504	NM 019237	k,x	
1719	17908	NM 019242	I,v,cc,General	
1720	11218	NM 019247	c	
1721	15259	NM 019259	Jd.f	
1722	21443	NM 019262	aa,General	
1722	21444	NM 019262	t,General	
1723	117	NM_019262 NM_019266	o,bb	
1724	1145	NM 019280	w	
1/24	1140	NM_019280	w	Bile acid biosynthesis, Fatty acid
1725	22220	NM_019286	c	metabolism,Glycerolipid metabolism,Glycotysis / Gluconeogenesis,Tyrosine metabolism
1726	10015	NM_019289	I,m,t,x,General	
1726	10016	NM_019289	bb,General	
1727	21651	NM_019296	c,f,x	
1728	20751	NM_019301	S	
1729	645	NM_019345	bb	
1730	1301	NM_019349	c	
1731	3776	NM_019354	la,u ,	
1732	4592	NM_019356	General	
1733	1324	NM 019371	w	
1734	19577	NM 019377	e	
1735	24626	NM 019381	s	
1736	744	NM 019622	P	
			-	Falty acid metabolism, Tryptophan
1737	20716	NM 019623	c	metabolism
1738	20709	NM 019904	x	The state of the s
1739	574	NM 019905	u.General	Glyoxylate and dicarboxylate metabolism
740	9096	NM 019908	i Solitorai	Conjunction and allocations place illetabolist
741	20457	NM_020073	i General	
741	20457	NM_020073 NM_020073	General	
741	20458	NM 020073	General	
			General	
742	18713	NM_020075	<u> </u>	
742	18715	NM_020075	1	T
743	20493	NM_020076	p	Tryptophan metabolism
744	16375	NM_020976	9	
745	20818	NM_021261	k,General	
746	15335	NM_021264	a	
747	18729	NM_021578	k,z	
748	19060	NM_021587	cc	
749	17324	NM_021593	o,General	
750	19679	NM 021653	General	
750	19678	NM_021653	a,v,General	
751	19665	NM 021688	u,General	
752	19667	NM 021690	m	
754		NM_021740	a	
755		NM 021744	i	
755		NM 021744	i	
		NM 021745	r	

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TABUE 2: I	PATHWAYS		Chief and I cape	AXiyy, Dooked No. 449241-503997 Doc. No. 1798397
Sequence ID No.	lidentifler	GentBentk Accol		Paliways
1757	1962	NM_021750	j,k,y,z	
1757	19824	NM_021750	a,bb	Taurine and hypotaurine metabolism
1758	25198	NM_021754	h	
1758 1759	20035	NM_021754 NM_021757	b,n,s,v,General	
1760	17885	INM 021765	laa	
1762	20161	NM 021836	cc,General	
1764	1203	NM_021997	k,z	
1765	23151	NM_022005	b	
1767	17101	NM_022179	bb	Aminosugars metabolism,Fructose and mannose metabolism,Galactose metabolism,Glycolysis / Gluconeogenesis,Starch and sucrose metabolism
1767	17100	NM_022179	bb	Aminosugars metabolism,Fructose and mannose metabolism,Galactose metabolism,Glycolysis / Gluconeogenesis,Starch and sucrose metabolism
1768	20257	NM_022180	w,General	
1768	25699	NM_022180	1	
1768	10860	NM_022180	IP.	
1769 1770	23780	NM_022183 NM_022224	k,x	
1771	6585	NM 022266	d.p.cc	
1772	17161	NM_022298	I.v.cc.General	
1772	17162	NM_022298	u	
1772	17160	NM_022298	u	
1772	17158	NM_022298	q	
1773	11454	NM_022381	i,aa,General	
1773	11455	NM_022381 NM_022390	I,General	Folate biosynthesis
1775	15184	NM 022391	z	Totale biosynthesis
1776	22413	NM 022392	h	
1776	22414	NM_022392	n	
1777	22499	NM_022393	t	
1779	24537	NM_022399	e	
1779 1780	24539	NM_022399 NM_022401	o,General	
1781	1069	NM 022401	g_	
1782	8211	NM_022500	j,n,s	
1782	8212	NM 022500	n.s	
1783	6815	NM_022503	s	Oxidative phosphorylation
1784	4259	NM_022504	jq,w	
1785	1611	NM_022509	1	Butanoate metabolism,Fatty acid metabolism,Valine, leucine and isoleucine
1786	2236	NM_022512	y,z	degradation
1787	3026	NM_022514	а	
1787 1788	3027 2696	NM_022514 NM_022515	a,q,r,aa a,d	
1788	2697	NM_022515	in.w.aa	
1789	3900	NM 022516	h	
1790	4151	NM_022518	0	Arginine and proline metabolism, Urea cycle
1791	4242	NM_022521	c	and metabolism of amino groups
1792	4412	NM_022523	0	
1793 1794	6641 8097	NM_022533 NM_022536	General ,	
1794	8597	NM_022536 NM_022538	c,r,u	
1795	8598	NM 022538	lu .	
1796	9296	NM_022541	lo	
1797	21063	NM_022585	h	

TABLES: P	AYE WEITE	\$		Aliy: Poekel No. 44921-501 Doc. No. 1799
Sequenco ID No.	nellitreb)	GenBank Acci Rof, Gog, ID No.	Model Gode	Pathways
1799	20781	NM_022591	Z	
1800 1801	20803	NM_022592 NM_022594	n q	Carbon fixation, Pentose phosphate cy
1802	20925	NM 022597	aa	
1803	21024	NM 022599	o,General	
1804	2250	NM_022643	General	
1805	17567	NM_022672	a.y	
1806	17661 24563	NM_022674 NM_022676	bb	
1807	24564	NM_022676	b.x	
1808	20506	NM_022686	1	
1809	20508	NM_022688	g	
1810	17586	NM_022694	k	
1811 1811	17730 17729	NM_022697 NM_022697	q	
1812	154	NM 022849	t t	
1813	127	NM_022855	h	
1814	152	NM_022858	j	
	18101	NM_022948	Z	
1816 1817	18103 21491	NM_022948 NM_022951	w	
1818	15742	NM_022951 NM_022958	y	
1819	9286	NM 023027	t.w	
1820	23215	NM_023102	z	
	21238	NM_024125	cc,General	il6,interact6-1
1821	21239	NM_024125	cc,General	il6,interact6-1
1822 1822	353 354	NM_024127 NM_024127	i,n,General i,n,General	
1822	352	NM 024127	h,General	
1823	17227	NM_024131	x	
1824	1598	NM_024134		
1825	1162	NM_024153	d	Porphyrin and chlorophyll metabolism
1826	7863	NM 024156	с	Oxidative phosphorylation, Type III pro- secretion system
	22079	NM_024157	×	secietion system
1828	16476	NM 024162	General	
	17765	NM_024351	b,s,v	
	8879	NM_024360	h	
1831	20772	NM_024363	x	B. 4
1832	0040	NIM 004200		Butanoate metabolism, Synthesis and degradation of ketone bodies, Valine,
	2812 335	NM_024386 NM_024387	i.y	leucine and isoleucine degradation Porphyrin and chlorophyll metabolism
	21		CC :	organyani and dispropriya metabolism
1834	22	NM_024388	cc	
	9929 .		1	Androgen and estrogen metabolism
	3582		aa	
			e,p,s,aa	
			cc,General :	
			g,General	
1841	13634	NM_024403	g,General	
		NM_024404	b,General .	
			h	Glycine, serine and Ihreonine metabolis
			e,General	Glutathione metabolism
			y.z	
			General	
			k,m	
			k	
			t	
			×	

WABUER: F	ATHWAYS	100		AMy, Podkol No. 45921-5099V Dog. No. 1796997
Sequence ID No. 1	Manifilar	GenBenk Acel Ref. Seq. (D No.	Madel Code	Paliways
1851	17342	NM_030873	U	
1852	24648	NM_030985	U	
1852	25453	NM_030985	General	
1853	21802	NM_030987	h	
1854	23109	NM 031000	f,s,z	Glycerolipid metabolism, Glycolysis / Gluconeogenesis, Pentose and glucuronate interconversions
1855	134	NM 031003	a.u	
1856	25461	NM_031009	0	
1857	1845	NM_031010	Jt	Prostaglandin and leukotriene metabolism
1857	25517	NM_031010	c,t	Prostaglandin and leukotriene metabolism
1858	16562	NM_031020	f	
1859	1480	NM_031021	f	
1860	1719	NM_031024	În .	
1861	1350	NM_031030	h	Arginine and proline metabolism, Glycine, serine and threonine metabolism, Urea cycl
1862	16775	NM 031031	General	and metabolism of amino groups
1863	691	NM 031034	w	and metabolism of amino groups
1864	15886	NM 031035	z	
1866	3608	NM 031044	k.General	Histidine metabolism
1866	3610	NM 031044	d,General	Histidine metabolism
1867	15137	NM 031051	s	
1868	514	NM_031056	General	
				Inositol metabolism,Propanoate metabolism,Valine, leucine and isoleucine
1869	17269	NM_031057	General	degradation
1870	11849	NM_031065	a	
1871	1855	NM_031074	h	
1872	4683	NM_031083	d	
1873	15202 15201	NM_031093	a	
1873 1874		NM_031093 NM_031099	a,n aa	
1875		NM 031100	a	
1876		NM_031103	w	
1877		NM 031104	q	
1878	16929	NM_031108	a	
1879	10878	NM 031110	q,bb	
1880	19162	NM_031111	aa	
1880	19161	NM_031111	a,bb	
1881	24615	NM_031112	a.y	
1882	20839	NM_031113	a.q	
1883	19040	NM_031114	I,m,General	
1884	16349	NM_031115	U	
1885		NM_031127	General	
1886 1887	1814	NM_031134 NM_031135	n,q General	
1888		NM 031136	a	
1888		NM 031136	3	
1889		NM 031140	General	
		NM 031144	a,e	
		NM 031152	bb	
1891		NM_031152	bb	
1892	15277	NM_031237	g	
1893	18083	NM_031315	q	
1893	1858	NM_031315	q	
1894		NM_031318 .	General	
1895	1422	NM_031324	bb,General	
1896	18597	NM 031325	a.bb	Nucleotide sugars metabolism,Pentose and glucuronate interconversions,Starch and sucrose metabolism
		NM 031327	i.cc.General	
			General	

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UABLE 2	PATHWAY	S Talleton S		Atty, Docket No. 449
		1000-00	-	Dog. No.
Seattenin Dible		ConBank Acel   Ref. Seq. ID No.	Model Code	reflyens 15
1899	18375	NM_031331	l,m	
1900	3519	NM_031334	icc	
1901	20698	NM_031357	b	
1903	634	NM_031509	n	Glutathione metabolism
1903 1903	25525	NM_031509	n	Glutathione metabolism
1903	635	NM_031509 NM_031509	b,n,w	Glutathione metabolism
1903	848	NM_031509 NM_031517	it it	Giutatnione metabolism
1905	1872	NM 031523	a	
1905	16245	NM 031523	a,d,u	ļ
1905	16244	NM 031523	a,u,u	
1906	9370	NM 031527	w	+
1907	20448	NM 031530	General	
1907	20449	NM 031530	General	<del> </del>
				Androgen and estrogen metabolism,Pentose and glucuro interconversions,Porphyrin and o
1908	14633	NM_031533	u	metabolism,Starch and sucrose
1909	16048	NM_031541	f	-
			1	Fatty acid metabolism, Tryptopha
1910	4011	NM_031543	c,q	metabolism
1910	4010	NM_031543	c,q	Fatty acid metabolism,Tryptopha metabolism
1910	4012		0	Fatty acid metabolism, Tryptopha metabolism
1911	28	NM_031543 NM_031546	General	metaooiism
1912	24640	NM 031548	h.cc	
1913	17149	NM_031549	IX	
1913	117151	NM_031549	Îx .	
1914	113105	NM 031552	1 w	
1915	15411	NM 031559	d.r	Fatty acid metabolism, Glycerolip metabolism
1916	116164	NM 031563	a,y	
1917	9621	NM 031570	lbb	
1917	9620	NM 031570	w,bb	
1918	546	NM 031573	If	
1919	1921	NM 031576	f	
1919	1920	NM_031576	ir	
1920	24219	NM 031579	i,General	
1921	770	NM_031584	k,x	
1922	18008	NM_031588	cc	
1922	18005	NM_031588	h	
1922	18011	NM_031588	cc,General	
1923	1584	NM_031595	k	
1924	24235	NM_031614	jv	Pyrimidine metabolism
1924	24234	NM_031614	General	Pyrimidine metabolism
1925	1639	NM_031627	j,l,v	
1926	1727	NM_031642	m,General	
1927	20766	NM_031643	У	
1929	1993	NM_031655	k,l,m,General	
1930	2057	NM_031660	e	
1931	15039	NM_031672	k,General	
				Butanoate metabolism,Fatty acid biosynthesis (path 2),Fatty acid metabolism,Lysine degradation,T metabolism,Valine, leucine and is
1932	15175	NM_031682	bb	degradation
1933	1004	NM_031685	v	oegradation
1933 1934	1004	NM_031685 NM_031687	v a,q,s	degradation
1933	1004	NM_031685	v	degradation

TABLE 2: T	PATHWAYS	<b>建筑体体</b>	1997	AND DOUBOURS 4/1920-1939/ Dog No. 1/1933/17
Sequence, 10 Ma	Martifar	GanDenik Acci Ref. Stap. (D No. to.		Pathways
1936	811	NM 031705	General	Pantothenate and CoA biosynthesis, PyrimidIne metabolism, beta- Alanine metabolism
1936				Pantothenate and CoA biosynthesis,Pyrimidine metabolism,beta-
1936	16204	NM_031705 NM_031706	o,v,bb,General g,bb	Alanine metabolism
1937	16205	NM 031706	a,y	
1938	24081	NM 031708	m	<del></del>
1939	16918	NM 031709	a,q	
1940	1081	NM_031712	General	
1941	1340	NM 031715	b,n,u,cc, General	Fructose and mannose metabolism,Galactose metabolism,Glycolysis / Gluconeogenesis,Pentose phosphate cycl
1942	23884	NIM 034734	l.s	Arginine and profine metabolism. Ascorbali and aldarale metabolism, Bile acid blosynthesis, Butanoate metabolism, Fatty acid metabolism, Glycorolipid metabolism, Histidrine metabolism, Lysine degradation, Proponoate metabolism, Pyruvate metabolism, Pyruvate metabolism, Pyrupothan metabolism, Valine feucine and isoleucine degradation, beta- Alanine metabolism.
1942	10241	NM_031731 NM_031740	d d	Alanine metabolism
1943	1214	NM 031740	r	
1944	1215	NM 031741	r	
1945	20724	NM 031753	h	
1946	20753	NM 031763	h	
1946	20752	NM 031763	v	
1947	14953	NM 031774	p	
1948	14184	NM 031776	t,General	Purine metabolism
1948	14185	NM_031776	d,o,t,General	Purine metabolism
1949	1169	NM_031789	C	
1950	16155	NM_031810	d,z	
1950	16156	NM_031810	d	
1951	17194	NM_031814	z	
1952	17535	NM_031816	bb	
1953	2655	NM_031821	i,l,m,aa	
1954	10167	NM_031830	1	
1955	22321	NM_031832	o,t,u,General	
1956 1956	4748	NM_031834	e,t e.t	
1930	4/49	NM_031834	e,t	Alanine and aspartate metabolism, Glycine,
1957	7914	NM 031835	e	serine and threonine metabolism
1958	8385		h	active and uncomine metabolism
1958	8384		h	
1959	10268		a	
1959	10269		aa	
1959	10267		n,aa	
960	15077	NM 031841	b	
1961	16726		x	Fructose and mannose metabolism
1962	25802	NM 031969	a	
1962	19191		c	
1962	19195		r	
962	19190		P	
1963	17734		v.General	
964	1475		٧	
965	15470		f	
1966	18502	NM_031984	c	
1967	19768	NM 031986	v,aa,General	
1968		NM 032084		

Germanne	THE RESERVE	Gan Beink Aerel		2. 等的基种联系统 8
Sequence ID Xo.	ldantifer	Ref. Seg. ID No.	Modal Goda	
1969	17935	NM_032615	,a	
1970	16831	NM_033095	in	
1971	25468	NM_033234	C,Z	
1971	25469	NM_033234	C	1
1971	17832	NM_033234	c,p	
1971	17829	NM_033234	c,z	
1972	4723	NM_033235	z	
1973	1409	NM_033349	p,General	Pyruvate metabolism
1974 1975	19998	NM_033352 NM_052798	General	
1975	1410	NM_052798	40	Cysteine metabolism, Taurine and
1976	15028	NM 052809		hypotaurine metabolism
1977	5176	NM 053297	li	Inypotaurine metabolism
1978	7660	NM 053299	fi .	
1979	5117	NM 053310	þ	
1981	17473	NM 053319	a,v	
1982	25480	NM 053329	9	
1982	21977	NM 053329	lv	
983	14926	NM 053330	If	
983	14929	NM_053330	e,General	
1984	16407	NM_053332	c,e	
1985	15790	NM_053341	·j,×	
1986	6154	NM_053356	p	
987	9215	NM_053374	1	
1988	6416	NM_053380	General	
989	19113	NM_053395	a	
990	2242	NM_053433	n,General	
991	5561	NM_053438	ly .	
992	14670	NM_053439	n,General	
993	17102 24762	NM_053440 NM_053442	General	
1994	8085	NM_053453	General	
996	4622	NM 053463	d	
997	21866	NM_053472	P	<del> </del>
998	9573	NM 053475	h	
999	16137	NM 053480	k	İ
000	15556	NM 053483	v	†
001	16394	NM_053485	General	
1002	4290	NM 053487	j.y	
004	18826	NM_053523	d	
005	7764	NM_053525	aa	
006	14199	NM_053538	С	
007	1058	NM_053539	c,d	
8008	4327	NM_053563	General	
009	1342 .	NM_053573	h	
010	19254	NM_053576	h,s	Methane metabolism,Phenylalanine metabolism
010	19253	NM_053576	h	Methane metabolism,Phenylalanine metabolism
011	3049	NM_053582	p,cc,General	
011	3050	NM_053582	o,General	
012	21423	NM_053586	s,y	Oxidative phosphorylation
013	21445	NM_053587	t,v	
014	20871 .	NM_053591	j,l	
014	20870	NM_053591	1	
015	21044	NM_053594	d	
016	21709	NM_053596	k	
	21708	NM_053596	z	
017	1597	NM_053611	t .	
018	5565	NM_053618 NM_053623	General	Fatty acid metabolism
2019	13004		lt :	

-	Control of the last		WAS STOLL	Dog. No. 179390
Seguenco IDNo.	Mentifier	GentBends Alocal Reals, Seeg. (ID No.)	Model Code	Pelbways -
				Arginine and proline metabolism,D-Argini
				and D-omithine metabolism, Glycine, serie
2020	1127	NM_053626	g	and threonine metabolism
2021	18644	NM_053648	n	
2022	21637	NM_053653	IP.	
2023	3454	NM_053662	cc	
2024	16121	NM_053698	hjz	
2024	16122	NM_053698	jh,j,z	
2025 2025	25379	NM_053713	General	
	13622	NM_053713	General	
2026	15376	NM_053747	h	1
2027	1218	NM_053748	b	
2028 2029	1137 15996	NM_053763	У	
		NM_053769	cc	
2030	8652	NM_053774	g	
2031	14664 4361	NM_053806	General	
2032		NM_053812		
2034	15002	NM_053819	b,x,bb,General	
2024	45000		b,I,x,bb, General	
2034	15003	NM_053819	General	
2035	17154	NM_053822 NM_053835	1	
2036	20868		j,z	
2037	20869	NM_053843	1	ļ
2037	714	NM_053843	1	
2040	19781	NM_053863	jb	
2041	19780	NM_053883	b	
2041	1454	NM_053883	General	
2042	1660	NM_053887		
2043	712	NM_053891	9	
2044	753	NM_053896 NM_053897	k	
2045	794	NM 053902	General	
2046	17937		General	Tryptophan metabolism
2047	8188	NM_053911 NM_053927	General	
2050	1628		h	
2050	13954	NM_053936 NM_053955	General	
052	408	NM_053955 NM_053961	General	
052	19991			
	16190	NM_053961 NM_053961	a	
	21355		q	
055	15136	NM_053961	j.l,y,z aa	
055	15135	NM_053971	d	
056	1764	NM_053971 NM_053974	h	
	1292	NM_053974 NM_053980	<u>                                     </u>	
	15468	NM_053980 NM_053982	<u>'</u>	
	15642	NM 053982 NM 053985	q General	
	21066	NM_053985 NM_054001	General	
	17326	NM 054001	io .	
	17326	NM 054008	cc	
	17329	NM 054008	g,o,cc	
	25253	NM 057099	j,l,m,p,z	
	22849	NM 057099	ij,m,p,z	
		NM 057103	b,cc	
		NM_057105	w	Androgen and estrogen metabolism,Pentose and glucuronate interconversions,Porphyrin and chlorophyl metabolism,Starch and sucrose metabolis
064	15126	NM_057105	r	Androgen and estrogen metabolism,Pentose and glucuronate interconversions,Porphyrin and chlorophyl metabolism,Starch and sucrose metabolis

			-180-	
TABUE 2: I	Pathways	A 1 27 E		Aliy, Podkol No. 44:21-00 Dos. No. 1799
Soguence ID No.	Mantiffer	ConDenk Acel Ref. Sog. ID No.	Modul Godo	Pathways
				Androgen and estrogen
			1	metabolism,Pentose and glucuronate interconversions,Porphyrin and chloro
2064	15125	NM_057105	s	metabolism,Starch and sucrose metal
2066	15391	NM_057114	'n	
2067 2068	915	NM_057123 NM_057124	m s	<del> </del>
2069	15151	NM 057131	k	<del> </del>
2070	1892	NM_057144	b	
2071	12333	NM_057155	f	
2071	12331	NM_057155	v,General	1
2071 2072	12332	NM_057155 NM_057194	f,General a,General	
2072	15408	NM 057197	p,t	<del> </del>
2073	15409	NM_057197	t	
2074	7866	NM_057198	h	Glutamate metabolism, Purine metabo
2075	14125	NM_057208	h,j,y,z	
2076 2077	10498	NM_057210 NM_078617	k,s a	
2078	8820	NM 080399	In .	<del> </del>
2079	15701	NM_080581	j.m,y,z	
2079	20105	NM_080581	aa	
2080	16109	NM_080585 NM_080766	d	
2081 2082	7108	NM_080766 NM_080778	la ly	
2083	132	NM_080782	lk	<del>                                     </del>
2083	133	NM_080782	1	
2084	20122	NM_080887	General	
2085	6143	NM_080892 NM_080902	e	
2086 2087	9952 17546	NM 130401	h b	
2088	21695	NM 130411	c,x	
2089	21391	NM_130416	x,General	
2090	20694	NM_130430	General	
2090 2090	19818 18810	NM_130430 NM_130430	e,s	
2091	18293	NM_130433	q	Bile acid biosynthesis, Fatty acid biosynthesis (path 2), Fatty acid metabolism, Phenylalanine metabolism, Valine, leucine and isoleud degradation
2092	25064	S45392	a,n	
2093 2094	3244 25501	S63519 S63521	u q	
2095	16248	S68135	h	
2096	18647	S69316	g ,	
2097	24351	S74257	v	
2098	25066	S75280	d	
2099	1460	S76054	j,l,m,x,y, General	
2100	25539	S76742	v	
2101	16400	S76779	c	
2102	24469	S77858	n	
2103	25545 21583	S77900	k,s	
2103 21 <b>0</b> 4	10260	S77900 S81497	k	
2105		S82579	k	Histidine metabolism
2106	111	U02506	u	
2107	14959	U03390	a,q,General	
2109		U05675	b,x,bb	
2110 2112	15462	U06230 U07201	d s,General	
2113		U09229	h	

TABUE 28 T	PATHWAYS	<b>新维护学</b>	15%	ANIX, Documentos, 44424 -503200 Doc. No. 1798347
Sequence ID No.	Manifica	GenBenk Acel Ref. Seq. ID No.	Modal Godo	Pathways
2114	809	U17035	General	
2115	16675	U17565	k,x,bb	
2116	25587	U20110	r	
2117	90	U20796	r	1
2118	25589	U21718	h,aa	
2119 2120	22196	U21719 U25746	h s	
2121	1537	U27518	g,h,n	
2122	1558	U28504	bb	
2123	16193	U30831	'n	<del></del>
2124	17480	U31598	z	
2125	18302	U33500	General	
2126	25599	U34897	У	
2127	1394	U37099	h	
2128	244	U38376	n	
2129	1623	U41164	jh	
2130	15851	U42719	f,t,x,General	
2131	17886	U47315	s,z	1
2132	21654	U53184	i,t,General	
2133	1439	U57391	w	
2134 2137	725 2153	U62316 U75404	bb	
2137	4956	U76714	b,cc,General	<u> </u>
2140	4477	U77829	l.m	<del> </del>
2141	21703	U82591	z	<del> </del>
2142	977	U89744	s	
2143	23282	U90725	ih	<del> </del>
2144	22005	U96490	m	
2146	819	X02284	j,z	metabolism, Glycolysis / Gluconeogenesis, Inositol metabolism, Pentose phosphate cycle Carbon fixation, Fructose and mannose metabolism, Glycolysis / Gluconeogenesis, Inositol
2147	818	X02291	e.j,z	metabolism,Pentose phosphate cycle
2148	20818	X02904	n.q	Glutathione metabolism
2149	16401	X04979	c	Contraction (1) Contraction (1)
2150 2151	20513 25084	X05684 X06769	o,r	Carbon fixation, Glycolysis / Gluconeogenesis, Punne metabolism, Pyruvate metabolism
2152		X13722	h	
2153		X14181	n	
2153		X14181	n,q,w	
2154		X14671	v	
2155		X15013	İq	
2155		X15013	c,q,w	
2158		X17665	la	
2157		X51529	t	Glycerolipid metabolism,Phospholipid degradation,Prostaglandin and leukotriene metabolism
2158		X51536	bb	
2158 2159		X51536	aa,bb	
		X51706	a,q,w	
2160 2161		X51707 X52711	a C	
2161		X52711 X52815		<b> </b>
2183		X53378	g w	<del> </del>
2164		X53504	General	
2165		X54467	d,u,General	<del></del>
2166		X55153	a,v	
2167	10344	X57405	i.m	

TABUE2: F	AYAWAYS	如鄉村人	esta esta	Ally, Postolino, 49921-50 Dos. No. 179
Sequence ID No.	Mentifler	GenBank Assal Ref. Seq. (D No.	Model Gode	Pathways to
2168	15106	X57529	g,n,q	
2169	5667	X58200	q,bb	
2169	18611	X58200	a,v	
2170	17175	X58389	w	
2171	25702	X58465	w	
2171	10109	X58465	c,q	
2172	25705	X59375	c,i,aa,General	
2173 2174	25709 18354	X59737 X59859	General	
2174	18354	X59859 X59859	I General	
2175	21657	X61381	General	<del></del>
2176	25718	X62145	bb,General	<del>                                     </del>
2176	15875	X62145	a,q,v	
2177	13646	X62166	bb	1
2178	25721	X62325	P	<del></del>
2179	16012	X62875	m,s,z	
2180	25730	X63369	cc	
2181	25089	X63594	General	
2181	25090	X63594	cc,General	
2182	20844	X65228	n,w	
2183	20879	X65296	j.y	
2184	25736	X68782	c	
2185	16426	X70369	С	
2186 2187	16300 24232	X70706 X75207	U	
2188	16272	X76456	c	
2189		X76489	n,p	
2190		X78949	h	
2191		X81448	General	
2192	24115	X81449	U	
2193	25754	X89696	g	
2194	25097	X90642	y,z	
2195	12978	X96437	cc,General	
2197	4594	Y07704	C	
2198	25777	Y08355	g,p,General .	
2199	15986	Y09945	bb,General ,	
2200	20890	Y13275	k	
2201	21914	Y13336	d .	
2202		Z11995	o,General	
2203		Z12298 Z49761	k	
2204 :		Z75029	r,v	<del></del>
2206		AA964755	cc	
2207		AA956638	aa	
2208		X73524	x	
2209		Z22607	w	
2210		Al071965 .	v	
2211	155	U32681 -	t	
2212			s ,	Methane metabolism,Phenylalanine metabolism
2213			q	
2214		M26125	n	
2215		M30689	1	
2216		Al177125	g	
		AI072161	<u>f</u>	Cl. Jothics
		H32189 Al177143	е .	Glutathione metabolism
2221	LUIL	mirr 140	b l	

WABLE	B HUMAN	HOMOLOGUEA	EMOLECTOR		Any, Docket No. 44921-6 Doc. No. 177
Sog.ID No.		GerBank Acc./ Ref. Seq. ID No.		Homologous Gene Venne	Konologous@ustarKhno
1	6949	AA012785	q		
2	25098	AA108277	h,v	1	
3	17312	AA108308	,		EST, Moderately similar to A C Mdm2 Bound To The Transacti Domain Of P53 (SUB 17-125 [H.sapiens], mouse double min human homolog of; p53-binding protein
			_		NADH dehydrogenase (ubiquin
4	16882	AA684537	0		beta subcomplex, 5 (16kD, SG IEST, Weakly similar to T30827
5	6049	AA685178	y		nascent polypeptide-associates complex alpha chain, non-muss spike form - mouse [M.musculi FKSG17, Homo sapiens alpha- gene for nascent polypeptide- associated complex componen (IAAQ363 protein, expressed sequence AL022831, nascent- polypeptide-associated comple: polypeptide
6	4426	AA685974	I.m		
7	21815	AA686423	g		EST, Weakly similar to T46390 hypothetical protein DKFZp434C1920.1 [H.sapiens], hepatocellular carcinoma-associantigen 59
				DNA-damage inducible transcript 3, DNA-damage-	DNA-damage Inducible transcrip EST, Moderately similar to GA15_HUMAN GROWTH ARRI AND DNA-DAMAGE-INDUCIBL PROTEIN GADD153 [H.saplens
8	1600	AA686470	1	inducible transcript 3	myozenin
8	1599 21997	AA686470 AA799325	i	DNA-damage inducible transcript 3, DNA-damage-inducible transcript 3	DNA-damage inducible transcrip EST, Moderately similar to GA15_HUMAN 'GROWTH ARRI AND DNA-DAMAGE-INDUCIBL PROTEIN GADD153 [H.sapiens myozenin
10	18396	AA799330	ů .	<del> </del>	
11 .	6581	AA799412			ESTs, Highly similar to ERR3_H ESTROGEN-RELATED RECEP GAMMA [H.sapiens], Untitled, estrogen related receptor, alpha estrogen-related receptor, beta, estrogen-related receptor beta
					ESTs, Moderately similar to NPL4_HUMAN NUCLEOSOME ASSEMBLY PROTEIN 1-LIKE 4 [H.sapiens], ESTs, Weakly simil NPL4_HUMAN NUCLEOSOME ASSEMBLY PROTEIN 1-LIKE 4 [H.sapiens], SET translocation, nucleosome assembly protein 1-
12 ,	16538	AA799449	k		nucleosome assembly protein 1
13 .	23294		U		CGI-116 protein
14	18290	AA799497	,		

TARK	ESS KIULKA	WEITHOOT COME IN	NINCTATIONS		Aug. Doctor no. 43924.4 For. No. 177
30g.(	e dentife	GenBent Acc./ er Ref. Sog. (DA)o	Mochi@odb	Homologous Cene Name	Manolarous Gluster Name
					IDAZ associated protein 1, EST Highly smillar to ROA1 RAT HETEROGENEOUS NUCLEA HERONOCLES OPPOSITION AND ARRONOCLES OPPOSITION AND ARRONOCLES OPPOSITION AND ARRONOCLES OPPOSITION AND Washing ARRONOCLES OPPOSITION AND Washing ARRONOCLES OPPOSITION AND IRODOCLES OPPOSITION AND RESEARCH AND ARRONOCLES OPPOSITION AND ARRONOCLES OPPO
15	18981	AA799523	e .		nuclear ribonucleoprotein A2/B
					EST, Moderately similar to A38: TCP1 ring complex protein TRK [H.sapiens], T-complex 1, chap- containing TCP1, subunit 3 (gar expressed sequence Al528772,
16	20843	AA799545 AA799560	h b		complex 1, t-complex protein 1
18	16576	AA799570	d		
19		AA799591 AA799598	I Z		EST, Moderately similar to 1333 tubulin (1.sa)geng, ESTs, Hgb) aimilar to 138370 beta-tubulin (H.sa)geng, ESTs, Hgb) aimilar to 138370 beta-tubulin (H.sa)geng, ESTs, Hgb) aimilar to TBB R TUBULIN BETA, Hgb) aimilar to TBB R TUBULIN BETA CHAIN (FL.novegicus), ESTs, Moderate similar to 138370 beta-tubulin (H.sa)geng, RIKEN CDNA (1.02E1 geng, RIKEN CDNA (1.02E1 geng, RIKEN CDNA (1.02E1 geng, RIKEN CDNA (1.02E2 geng, RIKEN CDNA (1.02E2 geng, RIKEN CDNA (1.02E2 geng, RIKEN CDNA (1.02E2 geng, RIKEN CDNA (1.02E2 geng, RIKEN CDNA (1.02E2 geng, RIKEN CDNA (1.02E2 geng, RIKEN CDNA (1.02E2 geng, RIKEN GDNA (1.02E2 geng, RIKEN GDNA (1.02E2 geng, RIKEN GDNA (1.02E2 geng, RIKEN GDNA (1.02E2 geng, RIKEN GDNA (1.02E2 geng, RIKEN GDNA (1.02E2 geng, RIKEN GDNA (1.02E2 geng, RIKEN GDNA (1.02E2 geng, RIKEN GDNA (1.02E2 geng, RIKEN GDNA (1.02E2 geng, RIKEN GDNA (1.02E2 geng, RIKEN GDNA (1.02E2 geng, RIKEN GDNA (1.02E2 geng, RIKEN GDNA (1.02E2 geng, RIKEN GDNA (1.02E2 geng, RIKEN GDNA (1.02E2 geng), RIKEN (1.02E2 geng), RIK
22	18346	AA799718	ir i		
23	8768	AA799726			0.0
24	11687	AA799732			DiGeorge syndrome chromosom region 6, DiGeorge syndrome or region gene 6, DiGeorge syndro critical region gene 6 like
25	18349	AA799744	Ü		annous regions gene o like
26	17494	AA799751	n		
27 28	18360	AA799771 AA799801	General w		
29	20998	AA799803			EST, Moderately similar to MAS2_HUMAN MANNAN-BINDI LECTIN SERINE PROTEASE 2 PRECURSOR [H.sapiens]. Rath norvegicus mRNA for serine procomplete cds, complement C1r-i proteinase pracursor, complement component 1, r subcomponent, complement component 1, s subcomponent 1, s subcomponent 2, protein C subcomponent 3, s subcomponent 4, s subcomponent 5, s subcomponent 6, protein C subcomponent 6, protein C subcomponent 6, protein C subcomponent 9, protein C subco

TABLE	O: GIUMAN	CHOMOLOGUEA	SKOLATOKK		Ally. Dookel No. 4/1921-503 Pos. No. 1798
Sog. (D No.	Mentifier	ConBant: Acc./ Rail Sag. 10 No.	Model Gode	Hamalogous Gana Nama	handage s Gluster Name
30	21006	AA799861	c		interferon regulatory factor 7
31	15011	AA799893	General		ESTs, Moderately similar to Up1, Two Rna-Recognition Molf Dome Introp A1 (SUB 3-146 Ht saplens) Introp A1 (SUB 3-146 Ht saplens) Introp A1 (SUB 3-146 Ht saplens) Interpretation of the Introperation Interpretation of Introperation Interpretation of Introperation Introduced Introperation Introduced In
32	20811	AA799899	a		EST, Moderately similar to RL1X, HUMAN 50S RIIBOSOMAL PROTEIN 1.18A [H. aspiens], EST Weakly similar to RL1X, HUMAN NIBOSOMAL PROTEIN 1.18A [H. aspiens], EST, Weakly similar to R37383 ribosomal protein 1.18a, cytosolic [H. aspiens], EST, May and Similar to R11X, HUMAN 60S RIBOSOMAL PROTEIN 1.18A [H. aspiens], EST, RIBOSOMAL PROTEIN 1.18A [H. aspiens], EST, RIKEN CDNA 251001 gene, ribosomal protein 1.18a
33	23202	AA799971	General	1	
34 35	4832 21656	AA800190 AA800202	b		ESTs, Moderately similar to 17014 glycogen phosphorylase [H.sapien ESTs, Weakly similar to 1701409A glycogen phosphorylase [H.sapien phosphorylase, glycogen; brain
	18433	AA800218	1I.V.Z		
36	18433 6386	AA800218 AA800235	j,y,z		
36 37					
36 36 37 38	6386	AA800235	u		DNA segment, Chr 14, University of California at Los Angeles Z., Hydroxysteroid chephydrogenese, 1; Hydroxysteroid (11-beta) debydrogenese 1, hydroxysteroid beta dehydrogenese 1, hydroxysteroid 17-beta dehydrogenese 11, reienta short-chain dehydrogenese/1 reienta
36 37 38 38	6386 18442	AA800235 AA800258	u		Callomia at Los Angeles 2, Hydroxysterio delytrigocases, 1; beta typs 1, expressed sequence C79874, hydroxysteriod (11-beta) delytrigocases 1, hydroxysteriod 17-beta delytrogenase 11, relianal short-chain delytrigocases 11, relianal short-chain delytrigocases 17, relianal short-chain delytrigocases 17, relianal FEROXIDASE-GASTROVITESTIN GENEZ, MOUSE GLUTATHIONE PEROXIDASE-GASTROVITESTIN (Dutathione paroxidase 1, glutathion peroxidase 1, glutathione peroxida (gastrovinestinase)
36 37 38 39	6386 18442 21092	AA800255 AA800258 AA800380 AA800387	y General		Callomia at Los Angeles 2, Hydroxysteriod delytrigocases, 11 beta lys 1, expressed sequence C79874, hydroxysteriod (11-beta) delydrogenase 1, hydroxysteriod (11-beta) delydrogenase 1, hydroxysteriod (11-beta) delydrogenase 1, hydroxysteriod (11-beta) delydrogenase 11, relian short-shain delydrogenase 11, relian short-shain delydrogenase 11, relian short-shain delydrogenase 11, relian short-shain delydrogenase 11, relian short-shain delydrogenase 11, relian short-shain delydrogenase 11, relian short-shain delydrogenase 11, relian short-shain delydrogenase 11, relian short-shain delydrogenase 11, relian short-shain delydrogenase 11, relian short-shain delydrogenase 11, relian short-shain delydrogenase 11, relian short-shain delydrogenase 11, relian short-shain short-shain delydrogenase 11, relian short-shain delydrogenase 11, relian short-shain delydrogenase 11, relian short-shain s
36 37 38 39	6386 18442 21092	AA600255 AA600258 -AA600380 -AA600387 -AA600613	y General Cc, General		Callomia at Los Angeles 2, Hydroxystroti dehydrogenses, 1, bela lyse 1, expressed sequence sequence sequence dehydrogenses 1, hydroxysted 1, bydroxysted 1, 17-beta dehydrogenses 11, reliad short-chain dehydrogenses/reduct expression sequence Sequence (Sequence ), GSHPC, AGN FORMERS (FINE FORMICHS (SEQUENCE) (SEQUENCE (GSHPC, GG) [M. musculus], Glutathone percodase 1, glutathio (gastrointestina); Jant finger protein 36, sinc finger Jant finger protein 36, sinc finger
36 37 38 39 40 41 42	21092 17325 13930 121372	AA800255 AA800258 AA800380 AA800380 AA800587 AA800613 AA800693	y General cc, General		Callomia at Los Angeles 2, Hydroxysteriod delytrigocases, 11 beta lys 1, expressed sequence C79874, hydroxysteriod (11-beta) delydrogenase 1, hydroxysteriod (11-beta) delydrogenase 1, hydroxysteriod (11-beta) delydrogenase 1, hydroxysteriod (11-beta) delydrogenase 11, relian short-shain delydrogenase 11, relian short-shain delydrogenase 11, relian short-shain delydrogenase 11, relian short-shain delydrogenase 11, relian short-shain delydrogenase 11, relian short-shain delydrogenase 11, relian short-shain delydrogenase 11, relian short-shain delydrogenase 11, relian short-shain delydrogenase 11, relian short-shain delydrogenase 11, relian short-shain delydrogenase 11, relian short-shain delydrogenase 11, relian short-shain delydrogenase 11, relian short-shain short-shain delydrogenase 11, relian short-shain delydrogenase 11, relian short-shain delydrogenase 11, relian short-shain s
36 37 38 39 40 41 42 42	21092 21092 17325 13930 21372 21373	AA800235 AA800258 AA800258 AA800380 AA800587 AA800693 AA800693	y  General  cc, General  v.		Callomia at Los Angeles 2, Hydroxysteriod delytrigocases, 11 beta lys 1, expressed sequence C79874, hydroxysteriod (11-beta) delydrogenase 1, hydroxysteriod (11-beta) delydrogenase 1, hydroxysteriod (11-beta) delydrogenase 1, hydroxysteriod (11-beta) delydrogenase 11, relian short-shain delydrogenase 11, relian short-shain delydrogenase 11, relian short-shain delydrogenase 11, relian short-shain delydrogenase 11, relian short-shain delydrogenase 11, relian short-shain delydrogenase 11, relian short-shain delydrogenase 11, relian short-shain delydrogenase 11, relian short-shain delydrogenase 11, relian short-shain delydrogenase 11, relian short-shain delydrogenase 11, relian short-shain delydrogenase 11, relian short-shain delydrogenase 11, relian short-shain short-shain delydrogenase 11, relian short-shain delydrogenase 11, relian short-shain delydrogenase 11, relian short-shain s
36 37 38 39 40 41 42	21092 17325 13930 121372	AA800255 AA800258 AA800380 AA800380 AA800587 AA800613 AA800693	y General cc, General		Callomia at Los Angeles 2, Hydroxysteriod delytrigocases, 11 beta lys 1, expressed sequence C79874, hydroxysteriod (11-beta) delydrogenase 1, hydroxysteriod (11-beta) delydrogenase 1, hydroxysteriod (11-beta) delydrogenase 1, hydroxysteriod (11-beta) delydrogenase 11, relian short-shain delydrogenase 11, relian short-shain delydrogenase 11, relian short-shain delydrogenase 11, relian short-shain delydrogenase 11, relian short-shain delydrogenase 11, relian short-shain delydrogenase 11, relian short-shain delydrogenase 11, relian short-shain delydrogenase 11, relian short-shain delydrogenase 11, relian short-shain delydrogenase 11, relian short-shain delydrogenase 11, relian short-shain delydrogenase 11, relian short-shain delydrogenase 11, relian short-shain short-shain delydrogenase 11, relian short-shain delydrogenase 11, relian short-shain delydrogenase 11, relian short-shain s

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TABLES	e galana	HOMOLOGUEA	no manors	Marin B	Alip, Docket No. 44221-50330 Dos. No. 1793397
330, ID. (10,	tan Militar	GanBank Acc./ Ref. Sog. (D No.	Model Gode	Mamalegous Gana Nama	Homologous Cluster Name
					EST, Weakly similar to H2AL_HUMAI HISTONE H2A.L (H2A/L) [H.sapiens] H2A histone family, member L, similal to H2A histone family, member A (H.
46	12399	AA801165 AA801307	General		saplens)
48	7543	AA801307	General		
48	24237	AA817726	t,General		
50	11215	AA817921	i,General	<b></b>	<del> </del>
51	5985	AA818005			
52	11338	AA818005	9		EST, Weakly similar to RB6K MOUSE RABKINESIN-6 [M.musculus], RAB6 interacting, kinesin-like (rabkinesin 6), RIKEN cDNA 3110001D19 gene, Rab6, kinesin-like
53	2845	AA818026	k,General		jnbotomorphogenic), subunit 6 (Arabidopies), homo sapiens cDNA [FLJ14833 fis, clone OVARC1001171, moderately similar to Homo sapiens irenselation initiation factor 3 47 Nba subunit mRNA, IF938, RitCHA CDNA 0610037M02 gene, eukaryotic translation initiation factor 3, subunit 6 (qeşilicn, 47KD), hypothetical protein MGC13045, prolessome (prosome, macropair) 265 subunit, non-ATPase 7
54 :	16756	AA818089	i,k,General	1	glycyl-tRNA synthetase
					EST, Weakly similar to S45140 tubulir beta chain (H.sapiens), RIKEN cDNA 2410129E14 gene, RIKEN cDNA 4930542G03 gene, tubulin, beta 2, tubulin, beta 5, tubulin, beta
55 56	17771 6522	AA818224 AA818261	e,g,p,General		polypeptide, tubulin, beta, 2
	5924		g,m		
57		AA818359	<u>y</u>		
58 59	7806 8237	AA818421 AA818512	b,aa v		
60	17434	AA818512 AA818574	h	<del></del>	
61	8728	AA818615	General		
				diphtheria toxin receptor (heparin-binding epidermal growth factor-like growth factor), heparin binding epidermal growth factor-	diphtheria toxin receptor (heparin- binding epidermal growth factor-like growth factor), expressed sequence AW047313, heparin binding epidermal
62	6054	AA818658	b,v,cc;General	like growth factor	growth factor-like growth factor
63	11590	AA818721	d		
64	4291	AA818741	q,General		
65	4330	AA818747	o,General	l	
66 67	19723	AA818761	v,General		
	13684	AA818770	h,j,l,m		
68	6322	JAA818801	k .		expressed sequence AV066530, guanylate cyclase activator 2B (uroguanylin), guanylate cyclase
69	7690	AA818875	General		activator 2b (retina)
		AA818907	o.General		
70	4952		q,General		
70	6094 10985	AA818911	t o,General		

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				-18/-	
		NHOMOLOGUEA	RIGITATION	we we will a	Aug. Docket No. 4:1926 Doc. No. 17
Seg. (D No.	nderetiffe	Genn Barrita Accult or Real Seen ID No.		Homologous Gono Namo	Homologous Gluster New
		a (1/30.460), ub/100.	juicadi (egas	0.003	CocoaCrisp, ESTs, Weakly si JCS308 testis-specific, vespic pathogenesis-related protein precursor [H.sapiers], Homo Similar to RIKEN cDNA 1700 gene, clone MGC-28856 IMAGE-482295, mRNA, com cds, RIKEN cDNA 1200009H RIKEN cDNA 1200011E04 gRIKEN cDNA 1200011E04 gaidte piddidymal glycoproteir acidic epiddidymal glycoproteir
					glioma pathogenesis-related p specific granule protein (28 kD specific gene 1, testis specific 1, testis specific protein 1 (pro
74 76	2586 16438	AA819081 AA819269	c		p3-1)
77	24721	AA819209	d.w	<del>                                     </del>	
					ESTs, Weakly similar to T1724 hypothetical protein DKFZp586M0617.1 [H.sepien: KIAA0263 gene product, mam
78	6250	AA819376	o,y		inositol hexakisphosphate kina HYA22 protein, conserved ger amplified in osteosarcoma, nu
80	6281	AA819517	b	Į	LIM interactor-interacting factor
81	10141	AA819526	ij		
82	6551	AA819558	t		
83 84	6723 14958	AA819653 AA819744	r aa		
85	19433	AA819776	,		ESTs, Highly similar to HS9B HEAT SHOCK PROTEIN HSP BETA [Rnorvegicus], express sequence AL024080, express sequence C81438, heet shock protein 1, beta, heat shock pro kDa 1
86	6204	AA819889	88		GMPR2 for guanosine monoph
					reductase isolog, IMP (inosine monophosphate) dehydrogena RIKEN cDNA 2310004P21 ger RIKEN cDNA 5730544D12 ger expressed sequence AA95985 guanosine monophosphate rec
87	6614	AA848315 AA848389	General		inosine 5'-phosphate dehydrog
88 89	21125	AA848437	General	<del></del>	<del></del>
					ESTs, Moderately similar to IF4B_HUMAN EUKARYOTIC TRANSLATION INITIATION FA 4B [H.sapiens], eukaryotic tran
90	23504	AA848496	g		initiation factor 4B ESTs, Highly similar to FMO2_ DIMETHYLANILINE MONOOXYGENASE [H.sapier Flavin-containing monooxygena flavin containing monooxygena flavin containing monooxygena
					flavin containing monooxygena
91 92	18532	AA848675 AA848738	g ic		hypothetical protein PRO1257
	16128	AA848807	0		1
93 94 95	22923 17339	AA848929 AA849497	g General		1

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TABLE 8	E HIUMANI	HOMOLOGUEA	NOTATIONS		. Any, Dooren No. 44921 -
M - 50	1.76	11.		20 0 0	Dec. No. 17
939,10 No.		Conforms Accel Roll Cog ID No.		Name Cana	rumologo e Gluster Nem
98	16678	AA849827	33		
99 100	8515 18447	AA849917 AA849939	General		<del> </del>
101	12130	IAA850037	D		<del> </del>
					RIKEN cDNA 2810452G09 get adenylyl cyclase-associated Co protein homolog 1 (S. cerevisia pombe), adenylyl cyclase-asso
102	23981	AA850040	x,aa		protein
103	13815 2637	AA850864 AA850893	it ix		DKFZP434O125 protein
106	22093	AA850909	d		DATE 4540 (25 protein
107	21766	AA850916	ic .		<del> </del>
					ESTS, Highly similar to LB4D; ADD-DEPENDENT LEUKOTI B4 12-HYDROXYDEHYDROG [H.sapiens], ESTs, Weakly similar FAS RAT FATTY ACID SYNTH [R.novegicus), ESTs, Weakly to LB4D, HUMAN NADP-DEPE LEUKOTRIENE B4 12- HYDROXYDEHYDROGENASE [H.sapiens], crystalin, zeta, fat
108 .	2847	AA850919	jw .		synthase
109	12162	AA850975	h		
110	9514	AA850978	General		
111	3924 3925	AA851017 AA851017	e,q o,General		
1112	4490	AA851184	a.k		cathepsin Z
113	19187	AA851230	General		Carrieponi E
114	19189	AA851237	c		RIKEN cDNA 1110058H21 gen ubiquitin specific prolease 18
115	15386	AA851241	m		breast cancer metastasis-supp
115	21462	AA851261	g,I,General		1, hypothetical protein MGC112 ART-4 protein
117	21471	AA851343	General		Tati 4 protest
					NADH dehydrogenase (ublquin S protein 8 (23kD) (NADH-coer
118	16902	AA851379	IP		Q reductase)
119	23376 23377	AA851392 AA851392	i,x		kinesin-like 4 kinesin-like 4
120	13349	AA851392	General		The room Plike 4
	21527	AA851733	r,u .		
122	4048	AA851814	i.o.u,General		EST, Moderately similar to PM* MOUSE MELANOCYTE PGO* PMEL 17 PRECURSOR (M.mu Homo sapiens, Similar to glyco (transmembrane) nmb, clone MGC:1696 IMAGE:3345861, m complete cds, glycoprotein (transmembrane) nmb, silver
400	40554	AA054074	L.		signal sequence receptor, alpha
123	17411	AA858621	lbb i.y		(translocon-associated protein a ESTs, Weakly similar to A6002' tropomyosin-related protein, ne rat [R.norvegicus], RIKEN cDN 0710005K15 gene, expressed sequence R75279, reticulon 1, reticulon 3
					expressed sequence Al747533, chromosome maintenance defic (S. cerevisiae), minichromosom
125 ,	1801	AA858636	k,s,x,bb		maintenance deficient (S. cerev
	18350		k,s,x,bb p		maintenance deficient (S. cerev

A Time	100	HONOROGUEA	(C)		Ally, Dockel No. 44121-5019. Doc. No. 179331
Sec. 10	reputitor:	Conferminace/ Red Soc, ID No.	Model Gode	Homologous Geno Namo	Memblegous Susiar Asing
129	17334	AA858704	p		exostoses (multiple) 1, exostoses (multiple)-like 1, expressed sequence AA409028
130	6380	AA858758	9		
131	13219	AA858759	a		1
132	6384	AA858788	I,m,General		
134	13412	AA858830	0		LanC (bacterial lantibiotic synthetas component C)-like, LanC (bacterial lantibiotic synthetase component C) like 1, RIKEN cDNA 1700003F10 ge
135	7279	AA858892	f		
136	18217	AA858930	t		1
137	5867	AA858953	v,General		asparaginyl-tRNA synthetase, hypothetical protein FLJ23441
138	14479	AA858969 AA859085			Interleukin 1 receptor accessory protein, Mus musculus IL-1Rrp2 mRNA, complete cds, interleukin 1 receptor accessory protein-like 2, Interleukin 1 receptor, type I, interleukin 18 receptor 1
140	17361	AA859114	o,General	1	
141 142	21025 10076	AA859241 AA859271	General C		[EST, Highly similar to OM25_RAT MITOCHONDRIAL OUTER MITOCHONDRIAL OUTER MEMBRANE PROTEIN 25 (NPW16) [R.norvegicus], EST, Weekly similer OM25_RAT MITOCHONDRIAL OUTER MEMBRANE PROTEIN 25 (NPW16) [R.norvegicus], Erbb2 interacting protein, discs, isang homolog 4 (Drosophila), expressed sequence All 18201, hypothetical protein FLU11271, synaptojenin 2 briding protein FLU11271, synaptojenin 2
	21791 16314	AA859333 AA859348	k cc.General		EST, Moderately similar to CYSR RI CYSTEINE-RICH PROTEIN 1 IR.norvegicus), ESTs, Weakly simila to S12655 cysteine-rich protein (H-sepiens), cysteine and glycine-rich protein 1, cysteine and glycine-rich protein 2 (archiae LIM protein), cysteine rich protein, cysteine-rich protein 2, cysteine-rich protein 3, thymus LIM protein
		AA859520	CC,General		
					EST, Highly similar to SPERM- COATING GLYCOPROTEIN PRECURSOR (R. noveglous), ESTS, Weakly similar to LC413 globm pathogenesis-related protein pathogenesis-related protein Flashean), Hennis DMs sequence thromosome 20 Contains ESTs, SSS, STSs and GO islands. Contains a gene for enovel protein similar to a typisal mishibor and four other genes for novel proteins, RIKED DMA 210114014 gene, RIKEN DMA 210114014 gene,

TABU	enuur 185	N HOMOLOGUE	NATION AND INC.	A TO SHOW	Ally, Docket No. 44924-5089VC
Seq. I	ideniide	GonBenk Ace. F Ref. Son, ID No.	Minia (dana	Homologous Gene	Journal Vieter Verille
148	14353	AA859585	ļh		
149	16318	AA859648			Drau (18490) homolog, subfamily 8, member 1, Drau (18494) homolog, subfamily 8, member 6, Drau (18490) homolog, subfamily 8, member 6, promotog, subfamily 8, member 6, promotog, subfamily 8, member 6, promotog, subfamily 8, member 6, promotog, subfamily 8, member 6, promotog, subfamily 8, member 6, promotog, subfamily 8, member 6, promotog, subfamily 8, member 6, promotog, subfamily 8, member 6, promotog, subfamily 8, member 6, promotog, subfamily 8, member 6, promotog, subfamily 8, member 6, promotog, subfamily 8, promoto
150	17316	AA859648 AA859652	General		2010306G19 gene
151	19067	AA859663	n,q		-
152	22406	AA859680	n		1
153	20599	AA859690	x		
154	14261	AA859693	u		
155	14138	AA859700 AA859700	٧		protoporphyrinogen oxidase
155 157	22374	AA859804	V		protoporphyrinogen oxidase
158	22385	AA859805	b,k		ESTs, Weakly similar to PROTEIN- LYSINE 6-OXIDASE PRECURSOR (R.norvegicus), Lysyl oxidase, lysyl oxidase, lysyl oxidase-like, lysyl oxidase-like 1, lysyl oxidase-like 2
159 160	22773	AA859885 AA859898	n k,x,z		
161	11891	AA859926	x x		
182	23070	AA859942 AA859948	k		EST, Weakly similar to JC1343 glycytpeptide N- tetradecanoyitransferase [H.sapiens], N-myristoyitransferase 1
164	23166	AA859954	cc,General		
165	18468	AA859966			Homo sapiens CDNA FLI 14686 fis, clone NT2RP2003000, weakly similar to TUMOR NECROSIS FACTOR, ALPHA-INDUCED PROTEIN 1, Homo sapiens polymerase delta-interacting protein 1 mRNA, complete comprotein 1 mRNA, complete comprotein 1 factor, alpha-induced protein 1 (endothelial) ESTs, Moderately similar to A Chain A, ESTs. Moderately similar to A Chain A,
166	23336	AA859981			Inositol Monophosphatase (H sapiens), Inositol (myo)-1(or 4)- monophosphatase 1, RIKEN cDNA 2900059K10 gene, bisphosphate 3- nucleotidase 1, inositol (myo)-1(or 4)- monophosphatase 1, inositol (myo)-1(or 4)- monophosphatase 2, inositol(myo)-1(or 4)- monophosphatase 2, inositol(myo)-1(or 4)- monophosphatase 1, inositol(myo)-1(or 4)- monophosphatase 2, inositol(myo)-1(or 4)-monophosphatase 2,
167	4222	AA860024	abb		EST, Moderately similar to EFIG_HUMAN ELONGATION FACTOR 1-GAMMA (1-sapiens), ESTS, Highly similar to EFIG_HUMAN, ELONGATION FACTOR 1-GAMMA (H.sapiens), Homo sapiens cDNA FJ.11216 is, clone PLACE1008002, eukaryotic translation elongation factor 1 gamma

LABUES	HUMAN	itolynol octus &	SMOJTATIONS	的数点 物質	7447 Docket No. 43225-4444 Doc. No. 17938
કાર [0]. !હ	klentifier	GonBank Ass# Raf. Seq. ID No.	Model Code	Homologova Gare Namti	hamologian Gluster Name
168	13974	AA860030	u,x,General		IEST, Moderately similar to 138369 tubulin [H.sapiens], EST, Weakly similar to 138369 beta-tubulin [H.sapiens], EST, Weakly similar to TUBULIN BETA-5 CHAIN [M.musculus], ESTS, Highly similar AZ5113 tubulin beta chain 15 - rat REnorvegicus], FKS06-bindleng pro 1A (12KD), RIKEN cDNA 2310081 gene, RIKEN cDNA 2310081 gene, RIKEN cDNA 2410129E14 gene, tubulin, beta 2, tubulin, beta tubulin, beta 2, tubulin, beta tubulin, beta polypeptide
169	7090 23769	AA860039 AA860055	x k,x	hyaluronan mediated motility receptor (RHAMM), hyaluronan-mediated motility receptor (RHAMM)	Mus musculus 12 days embryo m wolfflian duct includes surrounding region cDNA, RIKEN full-length enrichael literary, clone-9720486F1 full insert sequence, RIKEN cDNA 0610027024 gene, TRAF4 associatord 1, hyaluronan mediated molity receptor (RHAMM), hyaluronan-mediated molity receptor (RHAMM) observations of the companies of the control of the contro
171	16323	AA866240	w		EST, Weakly similar to PE2R RAT
172	4462	AA866264	General		ALPHA-HYDROXYSTEROID DEPHYDROGENASE (Enzonegui Mas musculus 10 days embryo CD DEPHYDROGENASE (Enzonegui Mas musculus 10 days embryo CD days e
					microthable-associated serind-friending of the control of the cont

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TABL	E DE CHUMAS	HOMOLOGUEA	NNOTATIONS	description of	Aliyi Docket No. 449214
839. <b>I</b>	o	GenBents Acod	E (2) E (2)	Nomologous Gono	© 003, 170, 177
Xo.	icentifin	Raf. Sag. ID No.	Model Code	Xiama	Complegeus Cluster Nam
174	17742	AA866302	c,y	4-hydroxyphenylpyruvate dioxygenase, 4- hydroxyphenylpyruvic acid dioxygenase	protein MGC15668
175	16333	-AA866414	⊊a,h	solute carrier family 4 (anion exchanger), member 1, solute carrier family 4, anion exchanger, member 1 (erythrocyte membrane protein band 3, Diego blood group)	ESTs., Highly similar to BAND: ANION EXCHANGE PROTEIN [M.musculus], ESTs, Weakly s B3HU band 3 anion transport a crythrocyte [H.sapiens], solute family 4 (anion exchanger), me solute carrier family 4, anion exchanger, member 1 (erythro- membrane protein band 3, Die- group)
176 177	18918	AA866444 AA866454	p.q ij.l.m.y.z		
178	18995	AA866459	ih,m	-	
179 180	16013 26036	AA866482 AA874849	s		INUCLEOTIDE EXCHANGE FA  [H.sapiens]. SETS, Weakly sim  FGD1 MOUSE PUTATIVE RHG  GUANINE NUCLEOTIDE EXCH  FACTOR [M.musculus]. ESTs,  similar to FGD1, HUMAN PUTA  RHG/RAC GUANINE NUCLEO  EXCHANGE FACTOR [H.sapien  FGD1 family, member 3, RIKEN  SSUM6 f1.01 gene, faciogenital  dysplasia (Aarstop-Scott syndri  acciogenital dysplasia homolog  faciogenital dysplasia homolog  faciogenital dysplasia homolog  faciogenital dysplasia homolog
181	16059	AA874857	h		
182	16069	AA874873	r .		FOT- Months similarly Co.
183	21633	AA874951	r		ESTs, Weakly similar to RNA bi protein (H.sapiens)
184	16192	AA874995	w		
185	16254	AA875025	i		cellular retinoic acid-binding pro
186	20701	AA875032 AA875097	cc.General	fibrinogen, A alpha polypeptide	Homo sapiens clone HQ0582, expressed sequence Al303526, fibrinogen, A alpha polypeptide, fibrinogen, gamma polypeptide
188	16416	AA875098	bb		ADP-ribosylation factor 3, RIKE cDNA 5430400P17 gene, Rattu norvegicus ADP-ribosylation fac mRNA, complete cds, expresse sequence AA408731
189	16419	AA875102 AA875126	bb I.m.General		expressed sequence AL022645 expressed sequence C76690, s nuclear ribonucleoprotein E, sm nuclear ribonucleoprotein polype E
191	110936	AA875146	w.	-	
192	18084	AA875186	h		ESTs, Weakly similar to IF39_H EUKARYOTIC TRANSLATION

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TABLE	e: Humax	I HOMOTOGALEV	NOTATIONS		Aig. Podket No. 44921-508900 Pos. No. 1798997
Seg II No.	Confiller			Momologous Geno Clama	Homologous Cluster Namo
194	15401	AA875257	x,z		
	1				NADH dehydrogenase (ubiquinone) Fe S protein 7 (20kD) (NADH-coenzyme
195	15410	AA875268 AA875286	p,s	4	Q reductase)
197	15446	AA875327	is.w		
198	7936	AA875495	b,General		
199	17314	AA875509	I,I,m		EST, Moderately similar to A Chain A, Mdm2 Bound To The Transactivation Domain Of P53 (SUB 17-125 [H.sapiens], mouse double minute 2, human homolog of; p53-binding protein
200	24472	AA875523			EST, Weakly similar to MOHUGN myosin alkali light chain 6, nonmuscle form [H.sapiens], myosin light chain, alkali, nonmuscle, myosin, light polypepitide 6, alkali, smooth muscle and non-muscle
201	115587	AA875577	<del></del>	<del></del>	and non-muscle
202	15617	AA875620	General	<del> </del>	
202	15618	AA875620	General	1	
203	5384	AA891041	f,cc,General		Jun-B oncogene, jun B proto- oncogene
204	24814	AA891209	lf,p		EST, Moderately similar to JH0148
205	21930	AA891322	d		nucleotin - rat (R.norvegicus), EST, Weakly similar to NUCL, HUMAN NUCLEOLIN H. sapiena), ESTs, High similar of EUS, HUMAN RINA-BINDING PROTEIN FUS H. sapiena), ESTs. Weakly similar of 17210 hypothetical protein DNF2P634N041. [H.sapiena), RIKEN CMA. 270022N2 (general RIKEN CMA. 270022N2) (general RIKEN CMA. 270022N2) (general RICH CMA. 270022N2) (general
206	17225	AA891553	h		IEST, Weakly similar to IF37 MOUSE EUKARYOTIC TRANSLATION INITIATION FACTOR 3 SUBUNIT 7 (M.musculus), eukaryotic translation initiation factor 3, subunit 7 (zeta, 66/67 KDa), eukaryotic translation initiation factor 3, subunit 7 (zeta, 66/67 KD)
207	7522	AA891571	j,m		1
208	9071	AA891578	Ь		
209	19321	AA891666	U ,	melanoma antigen, family D, 1	Homo saplens, Similar to neurofilament, heavy polypeptide (200KD), clone MGC:20701 (200KD), clone MGC:20701 (MAGE-E1 protein, MAGE-E1 protein, MAGE-E1 protein, MAGE-E1 protein, MAGE-E1 protein, MAGE-E1 protein, MEDI-MID (1974), clone (1974)
210	17693	AA891737	j,l,m,n,y,z		
			General		

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Sec. 3.3.	GER LIGHT	MHOMOLOGUEA	· All the second		. AMY Deales No. 41921 - Dec. No. 17
Sog. I	O COMMITTEE OF THE COMM	ComBenik Acc./ or Ref. Seq. ID No.	Moodel Goods	Klamologous Gano Xamo	Hemologous Gluster Nam
213	18269	AA891769	General		ESTs, Highly similar to S03911 fibronectin ED-A (H.sapiens), E Moderately similar to Fourth At Fibronectin Type I Module Pair 183-275 [H.sapiens], Fibronect fibronectin 1
214	9905 17061	AA891774 AA891812	s,bb,General	1	
	7050				ESTs, Highly similar to 201334 kinase SRPK1 [H. sapiens], Mumusculus 13 days embryo hea RIKEN full-length enriched libr. clone:311005M20, full insert sequence. Mus musculus adul fung cDNA, RIKEN full-length elibrary, clone:1200011822, full sequence. SFRS protein kinase 2, serine fich protein specific kinase 2, serine full protein kinase 2, serine full protein kinase 2, serine full protein kinase 2, serine full protein specific kinase 2, serine full protein specific kinase 2.
217 218 219	4463 14289 20523	AA891831 AA891831 AA891832 AA891842	General General		Jerinethroorine (Insue 22  EST, Weashy similar to PEZRR A  LIPHA-H/TRCX/YSTEKOID  EST, Weashy similar to PEZRR A  LIPHA-H/TRCX/YSTEKOID  EST, Weashy similar to A  LIPHA-H/TRCX/YSTEKOID  EST, Weashy similar to A  LIPHA-H/TRCX/YSTEKOID  EST, Weashy similar to A  LIPHA-H/TRCX/YSTEKOID  EST, Weashy similar to A  EST, Weashy similar to A  CY1_F
					AMINOACYLASE-1 [H.sapiens]
220	17779	AA891914	g,s,z		aminoacylase 1
221	. 17438	AA891943	General		
222	22862	AA891944	P		
223 224	1159	AA891949 AA891965	e,z		-
225	6362	AA891965 AA892053	General f.j.l.m		<del> </del>
226	19037	AA892066	T.J.I.M		<del></del>
227	19469	AA892112	Y General		EST, Weakly similar to PROD HUMAN PROLINE OXID MITOCHONDRIAL PRECURSO [H.sapiens]. Homo sapiens mRN KIAA1653 protein, partial cds, pr dehydrogenase, proline dehydrogenase (proline oxidase) proline oxidase 1, proline oxidase homolog
228	14595	AA892128	o,t,v		, included the second
229	16527	AA892154	cc	i	1
230	4482	AA892173	bb		1
231	20917	AA892238	h		Met proto-oncogene, RYK recep tyrosine kinase, macrophage stimulating 1 receptor (c-met-rela

TABLE	SE HUMAN	HOMOTOGAEVA	NOTATIONS		Ally, Dooled No. 44921-6000 Dog. No. 170987
300, ID No.		Gordonts Ass./		remoteros Como (okus	TO THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS
233	18183	AA892271	h		
234	6523	AA892299	d		
					EST, Weakly almilar to 60S RIBOSOMAL PROTEIN L3 IR.norvegicus], EST, Weakly similer 184501 ribosomal protein L3 IH.sapiens], ESTs, Moderately similer 50S RIBOSOMAL PROTEIN L3 IR.norvegicus], ESTs, Moderately initial rimilar to 184501 ribosomal protein L IH.sapiens], ESTs, Weakly similar to RJS MOUSE GOS RIBOSOMAL PROTEIN L3 IM. musculus], RIKEN CDNA 1110057116 gene, ribosomal
236	13647	AA892367	a	1	protein L3, ribosomal protein L3-like
237	3473	AA892378	v		
238	17682	AA892382	j.p.s.x,General		ESTs, Weakly similar to T44342 hypothetical protein TSC501 [H.sapiens], kidney- and liver-specific gene, putative N-acetyltransferase Camello 2
				aldolase 2, B isoform,	
239	820	AA892395	L.	aldolase B, fructose- bisphosphate	
240	114754	AA892395 AA892414	g,s u	poispnospnate	·
241	17439	AA892446	(		
671	117403	POTOSETTO	<del></del>		ubiquinol-cytochrome c reductase
242	16469	AA892462	lp.		(6.4kD) subunit
243	13609	AA892468	i,General		PROTEASE 7 PRECURSOR [M musculus], ESTs, Weakly similar I MCT7 RAT MAST CELL PROTEASE PRECURSOR (R.norvegicus), RIKEN CDNA 493099E18 gene, RIKEN cDNA 4933401F05 gene, marapsin, mast cell protease 7, protease, serine, 21 (testisin), protease, serine, 22, protease, serine, 8 (prostasin), tryptase della 1, tryptase, ajoha
243	13610	AA892468	n,v,General		[EST, Weakly similar to MAST CELL PROTEASE 7 PRECURSOR [M.musculus], ESTS, Weakly similar MCTT PAT MAST CELL PROTEASE PRECURSOR IR norvegicus], RIKEN CDNA 2410039618 gene, RIKEN CDNA 2410039618 gene, RIKEN CDNA 2410039618 gene, marapsin, mast cell protease, perine, 22, protease, serine, 6 (prostasin), tryptase delta 1, tryptase, elpha EST, Weakly similar to histore
					H2A.F/Z veriant [H.sapiens], H2A histone family, member Z, RIKEN cDNA C530002L11 gene, histone
244	9254	AA892470	n,u		H2A.F/Z variant
245	11991	AA892483	S		EST, Weakly similar to A32609 alpha- glucosidase [H.sapiens], ESTs, Weakly similar to LYAG MOUSE LYSOSOMAL ALPHA-GLUCOSIDAS! PRECURSOR [M.musculus], alpha glucosidase 2, alpha neutral subunit,
246	1522	AA892486	ſ		glucosidase, alpha, acid
-40	11994				ESTs, Highly similar to DS1_HUMAN DS-1 PROTEI [H.sapiens], immature

VABUE		HOMOLOGUEA	RIOTATIONS	S	- "Ally", Dookel No. 44924 -5089 V	
24 1 42	1 × 1	· 中国			Dos. No. 17798397	
	illemiller illemiller	Gordant Acc./ Ref. Sep. (D.No.			Homologous Gluster Name	
248	23889	AA892520	h			
249	8599	AA892522	p			
250	15154 17468	AA892532 AA892545	p		expressed sequence Al987846, expressed sequence AL023058, expressed sequence C77895, hypothetical protein MGC3178, prote disulfide isomerase-related protein, quiescin Q6	
251	11203	AA892545 AA892554	ir if.h	<b></b>		
252 253	18906	AA892554 AA892561	a.bb.General	ļ		
253	18906	AA892561	a,oo,General			
254	19327	AA892562	ي. برايا 2. برايا		ESTs, Moderately similar to DKC1 RAT DYSKERIN (R nonvegicus), EST Weakly similar to DKC1_HUMAN DYSKERIN (H. sapiens), RIKEN CDW 93042SC1 sgene, dyskoriosis congenita 1, dyskorin, hypothetical protelin, MGC7014, nuclear factor of kappa light polypepide gene enhance in B-cells inhibitor-like 1	
255	18274	AA892572	Įp.			
256	4512	AA892578	cc			
257	15876 19085	AA892582 AA852598	w General		[R nonegicus], EST, Moderately similar to 698 (BIOSOMAL PROTEIL E. [R.nonegicus], EST, Weakly simil to 1,000 (24) (BIOSOMAL PROTEIL E. [R.nonegicus], EST, Weakly similar to 505 (BIOSOMAL PROTEIL E. [R.nonegicus], ESTS, Highly similar to 505 (BIOSOMAL PROTEIN E. PROTEIN E. [M.musculus], ESTS, Moderately similar to RLB, HUMAN 605 RIBOSOMAL PROTEIN L. (M. Musculus], expressed sequence of the control of the cont	
258	19086	AA892598	General			
			General		EST. Highly similar to HISTONE 14 IR (Ronorgiosa), EST. Highly similar (Ronorgiosa), EST. Highly similar (Ronorgiosa), High histone family, member 1, High histone family, member 1, High histone family, member 1, High histone family, member 1, High histone family, member 1, High histone family, member 1, High histone family, member 1, High histone family, member 1, High histone family, member 1, High histone family, member 1, High histone 1, High histone family member 1, High histone 1, High histone family member 1, High histone family membe	
59	20065	AA892647	1		full Insert sequence, histone 4 protein	
	20088	AA892666	a,n .			
		AA892773				

TABLE	GE HUMAN	HOMOLOGUEA	BKIOTATOKI	\$40°C - \$5	Affys Dookint No. 44924-603800 Doo. No. 1793397
Seq. ID No.		GenBenk Ace./ Ref. Seq. ID No.	Model Gode	Nomologous Gene Name	Montologous Gluster Namo
262 263	17549 13542	AA892776 AA892798	f,z		Mus musculus, Similar to solute carrie family 25 (mitochondrial carrier; phosphate carrier), member 3, clone MGC-7631, mRNA, complete cds, expressed sequence W51672, solute carrier family 25 (mitochondrial carrier phosphate carrier), member 3
264	22537	AA892799 .	General		Sphospholyceinale dehydrogensase, EST, Weaky similar to SERN ART O-PHOSPHOGI VCERATE DEHYDROGENES (R. novegous), EST, Moderately similar to DEHYDROGENES (R. novegous), EST, Moderately similar to DEHYDROGENES (R. novegous), EST, Moderately similar to DEHYDROGENASE (H. sappens), Murmoudius addit male testis CDNA, RIKEN NUHlengthe enriched library, clones 4990404675, full insert of the control of
264	22539	AA892799	v		dehydrogenase 3-phosphoglycerate dehydrogenase.
					EST, Westly similar to SERA RIJE 2- PHOSPHOGI VECRATE DEHYDROGENASE (R norvegicus), EST, Moderathy similar to SERA, HUMAN D-3- PHOSPHOGI VECRATE DEHYDROGENASE (H sopiens), Mus musculus adult maie lestis CDNA, RIKEN Bill-length enriched library, Glone-493040-615, full insert sequence, RIKEN CDNA 1110059050 enen, RIKEN CDNA 4390829.09 eenen, RIKEN CDNA 4390829.09 eenen
264	22538	AA892799	General	4	gene, RIKEN CUNA 6430629LU9 gene glyoxylate reductase/hydroxypyruvate reductase, phosphoglycerate dehydrogenase

64.6	a collection	HOMOLOGUEA			Aily, Docket No. 44921-50397 Doc. No. 1793337
Sag. ID No.	13entifler	GenBenk Acc./ Ref. Seq. ID No.	Model Gode	Hermologicus @eme Xerma	Homologova Chalor Namo
266	23322	AA892821	j.z		ESTS, Highly similar to AR72, HUMA AFLATOXIN 91 ALDEHYDE REDUCTASE 1 (APB-AR 1) ALDOKETOREDUCTASE 10 ADDITION 10 ADDITION 10 ALDOKETOREDUCTASE 10 10 ALDOKETOREDUCTASE 10 10 ALDOKETOREDUCTASE 10 10 ALDOKETOREDUCTASE (R norvegicus), RIIKEN CDNA 0910028427 gene, aflatoxin B1 alidehyde reductase, alco-keto (aflatoxin aldehyde reductase), alco-keto reductase family 7, member A3 (aflatoxin aldehyde reductase), alco-keto reductase family 7, member A3 (aflatoxin aldehyde reductase), alco-keto reductase family 7, member A3 (aflatoxin aldehyde reductase)
267	17923	AA892843	1		
268	22871	AA892859	ļm		RIKEN cDNA 2410042F05 gene, procollagen-lysine, 2-oxoglutarate 5- dioxygenase (lysine hydroxylase) 2, procollagen-lysine, 2-oxoglutarate 5- dioxygenase (lysine hydroxylase, Ehlers-Danlos syndrome type VI), procollagen-lysine, 2-oxoglutarate 5- dioxygenase 1
269	9053	AA892861	p,v,General		
270	16482	AA892940	w		EST, Weakly similar to EFHU2 translation elongation factor eEF-2 [H.sapiens], ESTs, Highly similar to ELONGATION FACTOR 2 [R.norvegicus], US anRNP-specific protein, 116 KD, eukaryolic translation elongation factor 2, expressed sequence AI451340, hypothetical protein FLU21661
271	12020	AA893035	lj.y		
272	3863	AA893060	General		
273	13332	AA893080	i,General		
274	]21305	AA893082	General		
275	16591	AA893191	j,z		
276 277	17447	AA893192	General		
411	130/0	AA893205	in .		Calmodulin 1 (phosphorylase kinase,
					Idelta), Calmodulin III, ESTS, Highly similar to A Chain A, Calmodulin Complexed With Calmodulin-Binding Peptide From Smooth Muscle Myosin Light Chain Kinase (SUB 2-148 [H. aspiens], RIKE'n CDNA 2310068022 gene, calmodulin, calmodulin 1, calmodulin ( calmodulin 1, calmodulin 2 (phosphorylase kinase, delta), calmodulin 2, calmodulin 2 (phosphorylase kinase, delta),

				-199-	
210	119	THOMOLOGUE A	1 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		ANY DOORN NO. 44921-5033 Door No. 17933
	)(dentifier	Conflority Accul Roff, Stop. ID No.	Modul Code	Komologous Gara Numa	CONTROL CHART NAME
279	20986	AA893242	q	fatty acid Coercyme A ligase, long chain 2, fatty- aid/Coercyme A ligase, long-chain 2	EST6, Weakly similar to LCF9 MOI LONG-OHANF-ATTY-ACID—COA LCRASE 2 /M muscular), Mus LCRASE 2 /M muscular), Mus LCRASE 2 /M muscular), Mus LCRASE 2 /M muscular), Mus LCRASE 2 /M muscular), Muscular Coencyme A ligase, long-chain 6, Gone MCC22F4 /M MAGC-4461946 mRNA, complete cds, Ratty MCS-46194 mSC-46194
280	16168	AA893280	i.z.General		adlpose differentiation related prote
281	3886	AA893289			adipose diferentiation-related prote
282	15209	AA893327	j.m.y		
283	17800	AA893436	CC	<del></del>	
284 285	17836 9084	AA893626 AA893717	h x		Guarine nucleotide-binding protein beta 1, Homo againer mRNA for FL.00083 protein, partial cds, Mus musculus, clone MCC: T334 IMAGE: 3333484, mRNA, complete cds, RIREN LONA 59304 16HD2 growth Compared format n. 5, guarine nucleotide binding protein (E. protein Compared format n. 5, guarine nucleotide binding protein (E. protein Compared format n. 5, guarine nucleotide binding protein beta subunit 4, guarine nucleotide binding protein beta subunit 4, guarine nucleotide binding protein, beta 1, guarine nucleotide binding protein protein protein protein protein protein protein protein prote
286	22731	AA893743	là	1	
287	12031	AA893860 AA893905	v		ESTs, Highly similar to YSHUT threonine-tRNA ligase [H.sapiens], ESTs, Moderately similar to YSHUT threonine-tRNA ligase [H.sapiens], hypothetical protein FLJ12528, threonyl-tRNA synthetase
289	3447	AA893982	d	<del> </del>	
290	22583	AA894009	n	<del> </del>	
291	10540	AA894027	<del> </del>	<del> </del>	
292	4569	AA894059	l <sub>x</sub>	1	

WO 0	2/095000				PCT/US02/16173
				-200-	
TABLE	SE HUMAN	FIDMOLOGUE A	SINOTAL TONS		A(ty, pocket No. 44921 508900 Doc No. 1798897
939.ID Xo.	licentiflor			Hermologous Gene Name	Homologous Cluster, Name
293	18419	AA894130	d		Amyloid protein precursor-like protein 2, EST, Weeky Jamier or AMYLOID LINE PROTEIN 2 PRECURSOR [P. (Increagacs) Human DMA sequence throm the protein of the protein chromosome 2042-13.2. Contains her novel genes, some HE for Major poursor (Epidelium Secretion poursor (Epidelium Secretion Protein L.S.) COXEC (Pychotrome C Oxidase suburn MC) and HSPO1 (HSP60, Mitochondrial Martix Protein PT) precursor, Herbor (Secretion Coxidase suburn MC) and HSPO1 (HSP60, Mitochondrial Martix Protein PT) precursor, Herbor (HSP60, Mitochondrial Martix Protein PT) precursor, Herbor (HSP60, Mitochondrial Martix Protein PT) precursor, Herbor (HSP60, Mitochondrial Martix Protein PT) precursor (HSP60) precursor proteins protein proteins (HSP60, MICHON (HSP60, MICHON) (HSP60,
294	17336	AA894297	Ü		
295	19120	AA894318	lf.j		
296	19762	AA899113	U		EST, Weakly similar to S45140 lubulin bota chain (H.sapient), ESTs. Highly similar to TOST46 bullin beta chain (H.sapient), ESTs. Highly similar to TOST46 bullin beta chain (H.sapiens), ESTs. Hophy similar to Romonopicus, ESTs. Moderately similar to S18370 beta-bullin (H.sapiens), ESTs. Moderately similar to TBB H.RAT TUBULIN ESTA CHAIN (R.novegicus), ESTS. Moderately similar to TBB H.RAT TUBULIN ESTA CHAIN (R.novegicus), ESTS. Moderately similar to TBB H.RAT TUBULIN ESTA CHAIN (R.novegicus), EIKEN CONA 4930447030 gene, RIKEN CONA 4930447030 gene, bublin, beta 3, llubulin, beta polypopide
297	18286	AA899219 AA899498	w		ituounii, oeta polypepude
298	22052	AA899498	q		
299	21628	AA899563	33		
300	4262	AA899590	i		
301	4661 21354	AA899709 AA899721	t,Generat	receptor (calcitonin) activity modifying protein 3,	receptor (calcitonin) activity modifying protein 3
302	17905	AA899762	g General		EST, Moderately similar to EGFR HUMAN BFIDERMAN GROWTH FACTOR RECEPTOR PRECURSOR IF sapients, Epidermal growth factor receptor, formerly avian eyrhroblastic leavement virtue orthroblastic sonogene B 3, epidermal growth factor receptor, epidermal growth factor receptor (avian erythroblastic leuk emia viral (v- erb-b) anocegane homolog)
304	15231	AA899840	ir		

VARUE 8	E CHUIMIAN	HOMOLOGUEA	EXIONATIONS		Affy (Docket No. 44924-5169) Doc, No. 17939)
309 ID 10	l:Janiffar	GenBank Acc./ Ref. Seq. ID No.	Modal Cada	Homologous Gent Xento	Hornologeus Gustor Namo
305 306	23778	AA899854 AA899898	c,k,x	topoisomerase (DNA) II alpha, topoisomerase (DNA) II alpha (170kD)	IESTs. Moderately similar to A40493 DNA lopoisomerase [H.sapiens]. ESTs. Moderately similar to TP2A MOUSE DNA TOPOISOMERASE II, ALPHA (M. musculus), lopoisomerase (DNA) II alpha, lopoisomerase (DNA) beta, lopoisomerase (DNA) II beta (180kD)
307	9114	AA899951	v.General	<del> </del>	<del> </del>
308	8988	AA900148	f Contoral		
309	11841	AA900247	v		ESTs, Highly similar to IEFS_HUMAN TRANSFORMATION-SENSITIVE PROTEIN IEF SSP 3521 [H.sapiens], hypothetical protein FLJ12788
310	4725 4747	AA900290	oc oc		Alpha-2-macroglobulin, ESTs, Moderately similar to A2M2 MOUSE MURINOGLOBULIN 2 PRECURSOR (M.musculas, RIKEN eDNA 2610307121 gene, alpha-2-macroglobulin, carbon catabolite repression 4 homolog (S. cerevisiae), expressed sequence AW456442, pregnancy-zone protein
311		AA900465	General	1	
312	20988	AA900562	0		
313	3822	AA900863	b.c.General		DNA segment, Chr 17, human DoS818 E, ISETS, Highly semilar to \$33681 translation initiation factor elf- \$33681 translation initiation factor elf- k1. [H. sapienes], HLA-B associated transcript 1, Human clone 23933 mRNA sequence, eukaryotic translation initiation factor 4A, isoform 1, mitochondrial DEAD-box polypeptide 28, nuclear RNA helicase DECO variant of DEAD box family
315	12420	AA901017	10,g.Conotai		Mus musculus, Similar to aspartyl- tRNA synthetase, clone MGC:6719 IMAGE:3586278, mRNA, complete cds, esparaginyl-IRNA synthetase, aspartyl-IRNA synthetase, hypothetica protein FLJ10514, hypothetical proteir FLJ23441
	4849	AA901155	s		I LUESTA I
			General		
	3959	AA901338			succinate-CoA ligase, ADP-forming,
	22846	AA923982	a,d		beta subunit
	4895	AA923999	k		
	21546	AA924188	cc,General		
	24192	AA924210	n,General		
	4933	AA924301	g,l,General		ESTs, Weakly similar to NEUROFILAMENT TRIPLET H PROTEIN [M. musculus], RIKEN CDNA 0610009L18 gene, RIKEN CDNA 1300003A17 gene, RIKEN CDNA 2410142G14 gene, nucleokar protein
323	4944	AA924405 AA924428	I,General	l .	(KKE/D repeat)

100	1000	HOMOROGNEV	100000		Auty, Docket No. (2924-6986) 800, No. 174866
Seg. ID No.	trontilor	Contact Acod Rof. See, ID No.	Model Code	Hemologeus Gane Name	
			, med and defined the second		ESTs, Weakly similar to NPT2, HUMAN RENAL SODIUM- DEPENDENT PHOSPHATE TRANSPORT PROTEIN 2 [H sapier Homo sapiens, Similar to solute can family 34 (sodium phosphate), mem 1, cione MGC:18179 IMAGE:41533 mRNA, complete cds, Rattus nonvegicus mRNA (or MRP-2 alpha nonvegicus mRNA (or MRP-2 alpha nonvegicus mRNA (or MRP-2 alpha nonvegicus mRNA (or MRP-2 alpha nonvegicus mRNA (or MRP-2 alpha nonvegicus mRNA) or MRP-2 alpha nonvegicus mRNA (or MRP-2 alpha nonvegicus mRNA) (or MRP-2 alpha nonvegicus mRNA) (or MRNA) (or
					(sodium phosphate), member 1, solu carrier family 34 (sodium phosphate)
325	4949	AA924432	General .		member 2
326	18891	AA924598	le		
327 ;	22540	AA924630	v.General		3-phosphoglycerate dehydrogenase, EST, Weakly similar to SERA RT OF PHOSPHOGLYCERASE [R. norvegicus], EST, Woods with similar to SERA RT OF PHOSPHOGLYCERASE [R. norvegicus], EST, Moderately similar period of the phosphoglycerase of the phosphogly
	22541	AA924630	General		3-phosphoglycerate (delydrogenase, SET, Weakly simite to SERA RAT OF PHOSPHOGLYCERATE SET, MODELSHE (Rannegicus), SETA, MODELSHE (Rannegicus), SETA, MUMAN D-3- PHOSPHOGLYCERATE DEHYDROGENASE (Haspiens), Mumaculus edul male tests cDNA, RIKEN Mildength entriched library, circum 49304061, pl. Impact section 49304061, pl. Impact
		AA924766	k		
		AA924794 AA924813	x		
			g.p .		
		AA924902	r,General		
		AA924964	d		
34	23195	AA925019 AA925026	r General		ESTs, Weakly similar to A35863 tryptase [H. sapiens], ESTs, Weakly similar to MCT7 RAT MAST CELL PROTEASE? PRECURSOR (R.norvegitus), RIKEN CDNA 4733401N09 gene, mast cell protease, 7, tryptase delta 1, tryptase gamma 1 tryptase, along
		AA925049	f,aa,General		
36		AA925061	m o,General		
	14790	AA925087			

Septime	TABLE	E CHUMMAN	HOMOLOGUE A	BUCHEROUN		Ang, Docketino, 44920-503900 Doc. No. 1793897
338   5089		Menuffer			Homologous Gene Name	医共和共和共和共和共和共和共和共和共和共和共和共和共和共和共和共和共和共和共和
RINER N. III-length anriched library, clone.4930973172, ill library sequence, betaine-homocytaties assquence, ssquence assquence assquence assquence assquence and betain assquence and homocytaties methytomical protein, protein, protein protein, protei	338	5089	AA925126	g		Homo sapiens, clone IMAGE:3940519 mRNA, partial cds, hypothetical protei DKFZp7620076
	339	23261	AA925145	k,General		clone:4930572N12, full insert sequence, betaine-homocysteine methyltransferase, betaine- homocysteine methyltransferase 2
THYROLO RECEPTOR INTERACT   PROTEIN				  a		norvegicus mRNA for neurodegeneration associated protein 1, complete ods, expressed sequence AL022700, g1-related zinc finger protein, hypothetical protein, hypothetical protein FLJ11830 similar to Praja1, hypothetical protein, similar
ESTs, Highly similar to 16043584   Inculsar RNP protein I. [H. Hapiena], ESTs, Moderately similar to 1604586   Inculsar RNP protein I. [H. Hapiena], ESTs, Moderately similar to 160458   Industry RNP protein I. [H. Hapiena], heterogeneous nuclear inconscious received in the protein I. [H. Hapiena], heterogeneous nuclear inconscious received in the protein I. [H. Hapiena], ESTs, Moderately similar to 160458A   Ruscies RNP protein II. [H. Hapiena], ESTs, Moderately similar to 160458A   Ruscies RNP protein II. [H. Hapiena], heterogeneous nuclear richonucleoprotein III. [H. Hapiena], heterogeneous nuclear richonucleoprotein I	343	21500 22479	AA925353 AA925418	k t		(R.novejcus), ESTS, Weaky similer to Happa B alph chein (N.muecius) nuclear factor of kappa light chain (A.muecius) representation of the properties of the
EST, Moderately similar to 1604584   Incident RMP profess (H. Espains), ESTs, Highly similar to 16045854   Incident RMP profess (H. Espains), ESTs, Highly similar to 16045854   Incident RMP profess (H. H. Espains), ESTs, Highly similar to 16045854   Incident RMP profess (H. H. Espains), Incident RMP profess (H. H. Espains), Indident RMP profess (H. H. Espains), Indident RMP profess (H. H. Espains), Indident RMP profess (H. Espains), Indident RMP profess (H. Espains), Indidentally similar to 1X0336   Indidentally similar (H. ESTs, Moderately similar to 1X0336   Individual RMP profess (H. Espains), Individual RMP profess (H. Espains	346	16944	AA925541	f		nuclear RNP protein L [H.sapiens], ESTs, Highly similar to 1604358A nuclear RNP protein L [H.sapiens], ESTs, Moderately similar to 1604358A nuclear RNP protein L [H.sapiens], heterogeneous nuclear
succinate dehydrogenase [H.sapien succinate dehydrogenase complex, 347 17514 AA925554 Jbb Suburit A, Bavportini (Fg)	146	16945 ,	AA925541	t		EST, Moderately similar to 1604358A nuclear RNP protein L (H.sapiens). ESTs, Highly similar to 1604358A nuclear RNP protein L (H.sapiens). ESTs, Moderately similar to 1604358A nuclear RNP protein L (H.sapiens), heterogeneous nuclear inbonucleoprotein L
						succinate dehydrogenase [H.sapiens], succinate dehydrogenase complex,
348 5183 AA925662   i,General				i,General		

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F3000					
AND	100	N HOMOTOGREY	MORAIRENS		Any Docker no. 449214 Doc. No. 17
Seg. I No.		Gentlenk Aced Ref. Seq. ID No.	Modal Goda	Homologous Gene Name	Hermoderneus Glusder Nam
350 351	23190 5252	AA925863 AA926051	aa General		EST, Weakly similar to IMB3 IMPORTIN BETA-3 SUBUNIT [H.sapiens], Homo sapiens cC FLJ12978 fis, clone NT2RP20 RAN binding protein 6, karyop (importin) beta 3
352	22967	AA926080	h,cc		<del></del>
353	17157	AA926129	b	-	1
354	13411	AA926196	u,General		-
355	5295	AA926247	General		potassium channel, subfamily member 1 (TWIK-1), potassium channel, subfamily K, member (TASK-1), potassium channel, subfamily K, member 6 (TWIK- potassium channel, subfamily member 7
	1				DNA segment, human D4S114
356 357	22928 8948	AA926262 AA926316	General	ļ	protein
358	21798	AA926365	33		CGI-69 protein, EST, Moderett similar to T43493 hypothetical DKFZp434C119.1 [H.sapiens], mitochondrial carrier family pro mitochondrial solute carrier
359	9942	AA942697	s	<del> </del>	
360 361	6039	AA942716 AA942745	x,General g,o,w		DNA segment, Chr 17, ERATO 441, expressed, hematological neurological expressed 1
362	23005	AA942770	0		<del></del>
363	21318	AA942774	General		†
364	6615	AA942889	v	1	·
365	6691	AA943028	c		RAT MACROPHAGE COLONS STIMULATING FACTOR I RECEPTOR PRECURSOR [R. norvegicus], colony stimulat factor 1 receptor, colony stimulat factor 1 receptor, formerly McD feline sarcoma viral (v-fms) onc homolog
					DEAD (aspartate-glutamate-aia aspartate) box polypeptide 5. D (Asp-Glu-Als-Asp/His) box poly 11 (72kD), KIAA0801 gene pro RIKER CDNA 2610007K22 gene RIKER CDNA 4921505D17 gen RIKER CDNA 4921505D17 gen RIKER CDNA 49130430.19 gen helicase, Rattus norvegicus helicase, helicase, Rattus norvegicus domain mRNA, complete cis, domain mRNA, complete cis, expressed sequence A132543.05 (hypothetical protein, pr28, U5
366	22142	AA943066 ,	Р .		ALEX1 protein, ALEX3 protein, armadillo repeat protein ALEX2,
367	21993	AA943149	v,General .		hypothetical protein MGC3195
368	9061	AA943508	General		TU3A protein, hypothetical protein MGC11034 ESTs, Weakly similar to VIL1 M VILLIN [M.musculus], actin bind
369	24390	AA943531	b.j.n.y		LIM protein 1, advillin, erythrocy membrane protein band 4.9 (de erythrocyte protein band 4.9, vil

		A FUEDO TOMONIA			Aug. 2014 at No. 44921-4989W Dog. No. 179897
939, ID No.	icontifier	GonBank Aerul Ref. Seg. (D) No.	Model Godo	Homologous Gono Maino	
					EST, Moderately similar to 138369 be ubulin [H. sapiens], EST, Weakly similar to 138369 beta-tubulin [H. sapiens], EST, Weakly similar to TUBULIN BETA-S CHAIN [M.musculus], ESTs, Highly similar to A25113 tubulin beta chain 15 - rail [R.norvegicus], FKSG6-binding protein 1A (12kD), RIKEN CONA 2310051K0 (gene, RIKEN CONA 21026140
370	13976	AA943532	f,s,x		gene, tubulin, beta 2, tubulin, beta 5, tubulin, beta polypeptide
371	22248	AA943537	cc,General		ajuba, expressed sequence Al481106 expressed sequence R75157, zyxin
372	22257	AA943558	m	1	TATA box binding protein (TBP)- associated factor, RNA polymerase II J. 20kD
373	112673	AA943773	u,cc,General	<del> </del>	U, LUND
374	13641	AA944154	u	1	
375	2658	AA944155	i		
376	12770	AA944161	d	1	
					CDC28 protein kinase 2, RIKEN cDN/ 1110038L14 gene, expressed
377	20903	AA944180	i,x		seguence Al047807
378 379	13507	AA944244	v		
380	15596 22681	AA944353	General		
381		AA944413	i,v,cc,General		
381	6711	AA944439	General		ESTs, Highly similar to AGP2 RAT
382 383	14763	AA944481	i.q,General		ANGIOPOIETIN-2 (ANG-2) [R.norvegicus], engiopoietin 1, angiopoietin 2, angiopoietin-like 3, angiopoietin-like 4, engiopoietin-like fector
383	122466	AA944605	h		
384	12301	AA944727	6		Bool CLL Jarraborns 3, Beelt Jarraborns 3, Bee
185	7023		d.m.aa		protein
86	22536		bb		
					CGI-89 protein, hypothetical protein DKFZp667O2416, hypothetical protein FLJ20984, leukocyte receptor cluster
187	22501	AA944811	1,0		(LRC) member 4
	23967	AA944831	s		
89	26084	AA944922			
90	11974		General		

VARUE S	e Humani	HOMOLOGUEAL	NOTATIONS	<b>二类聚型基础</b>	Ally, Dockel No. 44925-609900 Dog. No. 1779897
839, ID No.	idantiffar	GenBank Ace./ Ref. Seq. (D No.	Modal Codo	Homologous Gano Namo	Hamalogaus Olyster Manno
392	22554	AA945076	z,General		
393	14352	AA945181	General		
395	1798	AA945569	General	1	
396	22050	AA945604	i,aa		
397	19731	AA945615	d,o	1	
398	22612	AA945624	a,General		Diaphorase (NADH/NADPH), NAD(P) menadione oxidoraductase 2, dioxin- inducible, NAD(P)H menadione oxidoraductase 2, dioxin-inducible, diaphorase (NADH/NADPH) (cytochrome b-5 reductase), diaphorase 4 (NADH/NADPH)
399	22618	AA945656	aa		
400	11871	AA945679	v	1	1
401	22656	AA945818	General		4
402	6720	AA945828	P		1
403	22351	AA945867	m		1
404	22665	AA945877	!		
405	24243	AA945950	b		1
406	22689	AA945962	General		1
407	22692	AA945986	d		
408	22696	AA945996	c,General		4
408	22697	AA945996	c,o		
409	22658	AA945998	w		ESTs, Weakly similar to COXG
410 411	20832 18337	AA946040 AA946046	s General		POLYPEPTIDE VIB IM. musculus]. Human DNA sequence from clone IRP4-591N18 on chromosome 22q13. 13.2 Contains a COX8B (Cytochrome C Oxidate subunit VIb (EC 1.9.3.1) pseudopens. ESTs. GSSs and two putative CyG islands, RIKEN cDNA 2010000G05 gene., cytochrome c oxidate subunit VIb
					EST, Highly similar to LMA3_HUMAN LAMININ ALPHA-3 CHAIN PRECURSOR [H.sapiens], ESTs, Highly similar to LMA3_HUMAN LAMININ ALPHA-3 CHAIN PRECURSOR [H.sapiens], Homo
412 413	825 8639	AA946108 AA946221	General e,cc,General		sapiens cDNA: FLU21236 fis, clone COL01111, expressed sequence Al853660, laminin, alpha 3 (nicein (150kD), kalinin (155kD), BM600 (150kD), epilegńn)
414		AA946224	f C,cc,ccirciai		<del> </del>
415		AA946250	0,88		1
416	19387	AA946275	t		actin related protein 2/3 complex, subunit 3 (21 kD)
	6351		d .		[EST, Weakly similar to JC5111 cyclin- dependent kinas-related protein 1b- rat [R. norvegicus], EST, Weakly similar to S10889 proline-rich protein [H. sapiens], ESTs, Highly similar to JC5111 cyclin-dependent kinase- related protein 1b-rat [R. norvegicus], Homo sapiens ALSCAT mRNA, Complete ds, PCTAIRE protein kinase 1, PCTAIRE-motil protein kinase 1, PCTAIRE-motil protein kinase 1, PETAIRE protein kinase 1
		AA946348	е		
			aa		1

TABLES	e thuman	HOMOTOGASAI	ROTATIONS		Atty Decket No. (492) -50890 Doc. No. 179889
Scojie. No:	l tentifier	GonBents Ace./ Red Reg. ID No.	Modal Gode	Moniclegous Como Name	Komolonous Oluster (Name
421 422	18280 18944	AA946361 AA946391	9		EST, Moderately similar to 1923401/ protein CBP [M.musculus], EST, Weakly similar to 1923401A protein CBP [M.musculus], ESTs, Highly similar to 1923401A protein CBP [M.musculus], ESTs, Weakly similar 1923401A protein CBP [M.musculus] bromodomain, testie-specific, bromodomain-containing 2
424	21410	AA946408	·		
					EST. Highly similar to HISTONE H4 [F.Anovegious]. H4 histone family, member J. H4 histone family, member J. H4 histone family, member J. H4. H4 histone family, member J. H4. H4 histone family, member J. H4. H4 histone family, member J. H4. H4 histone family member J. H4. H4. H4. H4. H4. H4. H4. H4. H4. H4
425	643	AA946439	o,y		IH4 gene, histone 4 protein EST, Weakly similar to NPD1, HUMA NEURAL PROLIFERATION DIFFERENTIATION AND CONTROL PROTEIN) IH. sapiens], expressed sequence Ai314472, neural proliferation, differentiation and control gene 1, neural proliferation,
426	20736	AA946443 .	×		differentiation and control, 1
427 428	21878	AA946448 AA946451	r bb		EST, Highly similar to AF151863 1 CC 105 protein [H.sapiens]
428 429	17499	AA946467	General		roa protein (ri.sapiens)
30		AA946503	x.General		
		AA955104	f		
		AA955162	General		
		AA955206	b,General		
134		AA955282	General		
		AA955298	General		
		AA955391	h		high density lipoprotein binding protein
			n General		(AiBuer)
10/	23340	VUB121931	General .		ESTs, Weakly similar to SX10 RAT TRANSCRIPTION FACTOR SOX-10 [R.norvegicus], SRY (sex determining region Y)-box 10, SRY (sex determining region Y)-box 9 (campomelic dysplasia, autosomal sereversal), SRY-box containing cene
438	12404	AA955408			10, expressed sequence AV220920
			aa		IV, Expressed sequence AV220920

	S 18 0 10	HOMOLOGUEA	. Skoltatokk		Any, Dockot No. 44921-903900 Doc. No. 17793397
839.00 No.	ldeniffer	GentBerrik Accel Roff, Geog. (10 No.		Montplagous Gento Namo	Homolor jours Cluster Name
441 442	17540 24277	AA955914 AA955962	bb		EST, Highly similar to FBRI. MOUSE FIRRILLARIN (M.msculus), EST, Waakly similar to A38712 fibrillarin H.aspiens), ESTA, Highly similar to A38712 fibrillarin (H.aspiens), ESTs, Weakly similar to FBRI. MOUSE FIBRILLARIN (M.msculus), expressed sequence AL022665, fibrillarin
443	19939	AA955980	General		1
444	24000	AA956005	i		ESTS, Weakly similar to PCBS, MOUSE POLY(RC)-BINDING PROB MOUSE POLY(RC)-BINDING PROTEINS (ALPHACPS) similar to ROTTERS (ALPHACPS) while respectively. Mouse of the respective proteins
446	498	AA956164 AA956278	a,General		complex protein 1
447	23409	AA956294	q		
449	23773	AA956476	f.x		
450	23799	AA956530	d		
451 452	23800 23834	AA956534 AA956659	aa cc,General	,	ESTs, Weakly simiter to RNG1_HUMAN RING1 PROTEIN [H.sapiens], ring finger protein 1, ring finger protein 2
TUE	23034		CC,General		gene rich cluster, C8 gene.
453	16425	AA956688	f,x		hypothetical protein MGC2577
454	23847	AA956723	S		
455	23852	AA956746	j.l,m.z		ESTs, Weakly similar to CHD4_HUMAN CHROMODOMAIN HELICASE-DNA-BINDING PROTEIN 4 [H.sapiens], KIAA1416 protein, KIAA1696 protein, chromodomain helicase DNA binding protein 4
456	5989	AA956907	g.s.		DnaJ (Hsp40) homolog, subfamily C member 8, Homo sapiens mRNA, cDNA DNFZp434C2016 (from clone) DNFZp434C2016, loukaryotic translation initiation factor 3, subunit 10 (theta, 150/170KD), suryotes translation control of the suryotic translation of the suryotic translation suryotic translation of the suryotic translation of the suryotic professional control of the protein DNFZp484E27, nasopharyngeal epithelium specific protein DNFZp484E27.

TABL	e se chuldada	HOMOLOGUEA	NNOTATIONS	Ave - Se	Alfy, Doskot No. 43924-6039V Dos. No. 1779397
Seg. (( No.	o denima	Conflorits Accul Ref. Stop. (D. No.	Modell Gode	Homologous Conc Name	Formalograss Clusica Namo
					DnaJ (Hsp40) homolog, subfamily C, member 8, Homo sapiens mRNA; cDNA DKFZp434C2016 (from clone DKFZp434C2016), eukaryotic translation initiation factor 3.
					eukaryotic translation initiation factor 3, subunit 10 (theta, 150/170kD), expressed sequence C85189, guarylate kinase membrane- associated inverted 1, hypothetical protein DKF2p434B227, nasopheryngeal epithelium specific
456	5990	AA956907	General		protein 1  X-linked protein, brain expressed, X-
					linked 1, hypothetical protein FLJ10097, nerve growth factor receptor (TNFRSF16) associated
457	23957	AA957123	u,General		protein 1 EST, Weakly similar to T12456
					hypothetical protein DKFZp564M2423.1 [H.sapiens], EST- Highly similar to T12456 hypothetical protein DKFZp564M2423.1 [H.sapiens], PAI-1 mRNA-binding protein, intracellular hyaluronan-
458	22357	AA957264	General g,l,m,p,v,cc,Gene		binding protein
459	23314	AA957270	ral		
460	23995	AA957292	a,b		
461	2702	AA957307	General		EST, Moderately similar to G01026 serine—tRNA ligese [H.sapiens], hypothetical protein FLJ20450, sery- tRNA synthetase, uncharacterized gastric protein YC12P
462	24040	AA957422	c		CD3 antigen, zeta polypeptide, CD3Z antigen, zeta polypeptide (TIT3 complex), Fc fragment of IgE, high affinity I, receptor for; gamma polypeptide, Fc receptor, IgE, high affinity I, gemma polypeptide, expressed sequence AI573376
463					EST, Weakly similar to S01696 gene P3 protein [H.sapiens], ESTs, Highly similar to P3 PROTEIN [M.musculus],
464	12478	AA957554 AA957811	m		Protein P3
465	24183	AA957889	ı		1
466	24178	AA957905	d		
167	17034	AA963071	e		EST, Moderately similar to COPE_HUMAN COATOMER EPSILON SUBUNIT [H.sapiens], ESTs, Highly similar to COPE_HUMAI COATOMER EPSILON SUBUNIT [H.sapiens], coatomer protein complex, subunit epsilon, hypothetical protein FL13241
					X-linked protein, brain expressed, X- linked 1, hypothetical protein FLJ10097, nerve growth factor receptor (TNFRSF16) associated
168 169	24053	AA963092 AA963201	General		protein 1
170	2022	AA963259	o g		
					4
171	2126	AA963488	d		1
	2126 24246 2195	AA963703 AA963746	b General		

		Homologuea	on the last		Affyr Deferral No. 4/1927-60300 Pers No. 1/19380
No.		SonBank Acc./ Ref. Seq. (D No.	Model Gode	Hamologous (930) Namo	Nomologous Gluster Namo
475	2282	AA964147	e		
476	2284	AA964152	x	1	
					ubiquitin specific protease 14 (tRNA
478	2350	AA964368	g;General		guanine transglycosylase)
					ESTs, Weakly similar to A29861 act gamma [H.sapiens], ESTs, Weakly similar to 139393 alpha-actin [H.sapiens], ESTs, Weakly similar to
479	18830	AA964496	aa		S38782 actin beta 'chain [H.sapiens Homo sapiens mRNA; cDNA DKF2p43482115 (from clone DKF2p43482115), RIKEN cDNA 1700052K15 gene, RIKEN cDNA 1700061J02 gene, actin-like 7a, expressed sequence AL023024, expressed sequenc
480	2392	AA964541	ib		hypothalamus protein HARFTT
	2392		General		
481		AA964554			
482 .	2410	AA964589	i,aa		
483	19145	AA964613	t		
484	2424	AA964617	9		
485	3107	AA964687	General		
486	2457	AA964752	q,t		
487	6778	AA964763	b		
489	2468	AA964807	l .		
490	2469 12561	AA964814 AA964815	w General	glutamate-cysteine ligase , modifier subunit, glutamate cysteine ligase, modifier subunit	GLUTAMATECYSTEINE LIĞASE REGULATORY SUBUNIT [H.sapien- glutamate-cysteine ligase, modifier subunit, glutamate-cysteine ligase, modifier subunit
101	12001	771307013	Curiorui		EST, Weakly similar to
492	2326	AA964892	aa		PROCOLLAGEN ALPHA 1(IV) CHAI PRECURSOR [M.musculus], collage type IV, alpha 1, procollagen, type IV, alpha 1, procollagen, type IV, alpha 1 procollagen, type IV, alpha 5
192	2326	AA964892	aa		ATP-binding cassette, sub-family A
					(ABC1), member 1, ATP-binding cassette, sub-family A (ABC1), member 12, ATP-binding cassette, s family A (ABC1), member 7, EST, Moderately similar to ABC1_HUMAN ATP-BINDING*CASSETTE, SUB-
493	21339	AA964962	General		FAMILY A, MEMBER 1 [H.sapiens], EST, Weakly similar to ABC1 MOUS ATP-BINDING CASSETTE, SUB- FAMILY A, MEMBER 1 [M.musculus RIKEN CDNA 1810036E22 gene
194		AA964988	General		
195	12569	AA965023	9		
					Homo sapiens, clone MGC:8857 IMAGE:3866266, mRNA, complete cds, inorganic pyrophosphatase,
196	2583 :	AA965166	bb		pyrophosphatase (inorganic) EST, Highly similar to T14795 hypothetical protein DKFZp434E171.
197	15885	AA965207	r		[H.sapiens]
199	2905	AA996727	b,l,m,u,General		
500 .	2915	AA996782	u,bb ,		ESTs, Moderately similar to LAMIN E [M.musculus], hypothetical protein MGC2721, lamin B1, lamin B2
501			d		moderat, lanen 51, lamin 52

		HOMOLOGUEAL	ENGIVATONIS		Atty (Posko) No. 44929-60891 (Pos. No. 1779899
Sag. (D) No.	identiller	Conforms Accul Ref. Seq. (D) No.	Model Code	Korrologous Cont Name	Homoforous Gluster Name
503	2984	AA997015	c	1	
504	2986	AA997028	General		<del> </del>
505	3145	AA997237	General		
506	19249	AA997342	lm	<del> </del>	-
507	16883	AA997345	General		<del> </del>
508	12598	AA997362	s		methylene tetrahydrofolate dehydrogenase (NAD+ dependent) methenyltetrahydrofolate cyclohydrolase, protease, serine, 1
509	3470 3180	AA997374 AA997425	P		EST, Weakly similar to LIST MOUS PLATELET-ACTIVATION FACTOR PLATELET-ACTIVATION FACTOR ACETYL-HYDROLASE IB ALPHA SUBUNIT R. ROYGELDS, B. B. B. B. B. B. B. B. B. B. B. B. B.
					IEST, Weakly similar to PLASMINOSEN ACTIVATOR INHIBITOR-2, TYPE A [R.norvegicul expressed sequence Al876477, expressed sequence C76171, plasminogen activator inhibitor 2 type A, serine (or cysteine) proteinase inhibitor, clade B (ovelbumin), memb 2, serine (or cysteine) proteinase inhibitor, clade B (ovelbumin), memb
511	3245	AA997608	General		6, serine protease inhibitor 12
12	3020	AA997656	t		
13	3269	AA997800	x,ea		Homo sapiens, clone IMAGE:48104 mRNA, antigen identified by monoclonal antibody Ki 67
14	3288	AA997877	T		
i15	23992	AA998164	k,x .		DNA segment, Chr 4, ERATO Doi 6 sexpressed, EST, Moderately similar CGB2 MOUSE G2/MITOTIC-SPECIFIC CYCLIN B2 [M.musculus ESTS, Weakly similar to CGB1, HUMAN G2/MITOTIC-SPECIFIC CYCLIN B [H.sapiens], cyclin B1
16	17470	AA998264	ь 1		biliverdin reductase B (flavin reducta
10	1/4/0	MASSEE AM	0		(NADPH))
17			General		B-cell CLL/lymphoma 3, molecule possessing ankyrin repeats induced lipopolysaccharide (MAIL), homolog mouse, nuclear factor of kappa light polypeptide gene enhancer in B-cell inhibitor, epsilon
10 0	10023	AN330422	General		ESTs, Weakly similar to G2/MITOTIC
19	3572	AA998516			SPECIFIC CYCLIN B1 [R.norvegicus cyclin A2, cyclin B1, cyclin B1, relate sequence 1, cyclin B2
20	2782	AA998565		1	cyclin-dependent kinase inhibitor 1C (P57), cyclin-dependent kinase inhibitor 1C (p57, Klp2)

TABLE 8	e Munan	THOMOTOGUE AN	RIOTATIONS		Ally Docker No. 44921-3689X Doc No. 179381					
Sag.ID Yo.	Limitifier	Goodfands Acc./ Ref. Song ID No.	Modal Goda	Homologous Gana Mama	Flormologous Gluster Name					
521	26119	AA998576	i,r,w,General							
522	22737	AA998660	aa	1						
523	3696	AA999030	е							
524	3079	AA999169	k,x,General	1	1					
525	3081	AA999171	e,p,r	signal transducer and activator of transcription 1, signal transducer and activator of transcription 1, 91kD	Signal transducer and activator of transcription 3, expressed sequence AA408197, signal transducer and activator of transcription 1, signal transducer and activator of transcription 1, 91XD, signal transcription 2, signal transducer and activator of transcription 3, signal transcription 3 (acute-phase respons facior), signal transducer and activate of transcription 5 (acute-phase respons facior), signal transducer and activate of transcription 5 (acute-phase respons facior).					
		1			ESTs, Moderately similar to A54847					
				1	GMP synthase [H.sapiens], guanine					
526 527	3082 17337	AA999172 AB000717	General		monphosphate synthetase					
527	17337	AB000717	k		phospholipase D1, phophatidylcholin					
528	1535	AB000778	la		specific, phospholipase D2					
529 530	1382	AB002406 AB003753	k d	RuvB (E coli homolog)-like 1, RuvB-like protein 1	Homer, neuronal immediate early gene, 18, Homer, neuronal immediate early gene, 2, homer, neuronal immediate early gene, 1, homer, neuronal immediate early gene, 2					
531	4312	AB010635	c.i.j.k.y.z		EST, Wassty similar to LCS408 control/yesterate III, Haspiering, ISST, Moderately similar to ES22 MOUSE LUVER CARBOX/USETERASE 2 PRECURSOR [M.Museculus], ESTs, Wassly similar to M4609 carboxyesterate [1-446] exchocyyesterate		AB012214			Mus musculus mouse-thyrotropin- releasing hormone receptor 2 (TRH- R2) mRNA, complete cds, thyrotropin releasing hormone receptor,

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22		THOMOTOGREY	16177000		Atty: Docket No. 44921 - 6689W 1906 No. 1798887
	identiller		Model Gode	Hemologeus Gene Name	Homologous Cluster Name
534	1183	AF013144	ā,		ESTS. Weakly similar to DUSS. HUMAN DUAL SPECIFICITY PROTEIN PHOSPHATASE 8   H saplengi, Human DNA sequence   H saplengi, Human DNA sequence   Chromosome 20 Contains parts of 2 clasforms of the BCL21; (BCL2-like 1) gene, the gene for a novel protein similar to MYLK (myosin, light (FLS55), the Gene for a protein similar to MYLK (myosin, light (Grithead (Drosophilar)-like 15) gene, part of three novel genes, ESTs. STSs, GSSs and CyG Islands, KIAAT25 protein, dual specificity phosphatase 13, dual specificity phosphatase 13, dual specificity phosphatase 15, expressed sequence C79103, protein tyrosine phosphatase C79103, protein tyrosine phosphatase C79103, protein tyrosine phosphatase C79103, protein tyrosine phosphatase C79103, protein tyrosine phosphatase
					B-cell CLL/lymphoma 6, member B (zinc finger protein), ESTs, Moderately similar to zinc finger protein [H.sapiens], Homo sapiens, Similar to RIKEN cDNA 061002002 gene, clone MGC:23427 IMAGE:4654320, mRNA.
535	1582	AF015911	h,z		complete cds
538	111483	AF020618	u,cc,General		HLA-G histocompatibility antigen.
537	19077	AF024712 AF030358	аа у. <i>z</i>		class I, G hypothelical protein, clone 1-53, small inducible cytokine subfamily D (Cys-X; Cys), member 1 (fractalkine, neurotactin), small inducible cytokine subfamily D, 1
539 540	23044 25178	AF034218	General d		RIKEN cDNA 4632428M18 gene, hyaluronidase 1, hyeluronidase 2, hyaluronoglucoseminidase 1, hyaluronoglucoseminidase 2, hyaluronoglucoseminidase 3, sperm adhesion molecule
					ESTs, Moderately similar to hepatitis A virus cellular receptor 1 [H.saplens], ESTs, Moderately similar to kidney injury molecule-1 [R.norvegicus], ESTs, Weakly similar to kidney injury
541	1564	AF035963	x,bb,General		molecule- I [R. novegicus] ESTs, Moderately similar to NRS4, HUMAN S4 KDA NUCLEAR RNA-BINDING PFOCTEN [R-sapiens], ESTs, Moderately similar to pS4nrb ESTs, Moderately similar to pS4nrb ASS90 toclame-indiring protein NonO -mouse [M. musculus], ESTs, Weakly similar to PSF-LUMAN PTB ASSOCIATED SPILICING FACTOR [H. sapiens], RIFKEY CDM. 9030402004 gene, non-PQU-domain- containing, octame-shinding protein

TABLE	e: Chomas	I KOMOLOGUE A	EMOTRATIONS	144 A 1	Ally, Dortot No. 49226-5: 003. No. 179
Sog. 10 No.	1 tavillitor	GonBunk Aced Ral. Sag. 10 No.		Homologous Gene Name	Demologous Clubby Namo
543	21817	AF036537	k	solide carrier family 1	IESTs, Highly similar to ASS318 esementhrencine protein kinase ententhrencine protein kinase (Manusculas), ESTs, Weakly sir Manusculas), ESTs, Weakly sir Manusculas), ESTs, Weakly sir Manusculas, ESTs, Weakly sir Manusculas, ESTs, Weakly sir Manusculas, ESTs, Standard Manusculas, Weakly Standard Manusculas, W
				(neuronal/epithelial high affinity glutamate transporter, system Xag), member 1, solute carrier	
544	21145	AF038571	General	family 1, member 1	2,4-diencyl CoA reductase 1,
545	22602	AF044574	General		milochordrisi, 2.4-dimory CoA- roductase 2, perorisomal, 24-disi Coenzyme A reductase 2, perorisomal, 24-disi Coenzyme A reductase 2, peroxisomal, 2513, Weakly, similos \$11021 2,4-dienoy-ICoA reductas [R.nonegicus], Homo sopiens A, protein mRNA, partial cds, RIKE- ICOM 1 20001257 gene, RIKED CDM 2 400003818 gene 13 (IAAD), hydroxysteroid (17-det 13 (IAAD), hydroxysteroid (17-det 2-enoy/ COA reductase, putalise s chain alcohol dehydrogenase
546	13464		h		glucosyltransferase
547	24024	AF052695	×		COT UI-bb - Indiana - 10 coop
					EST, Highly similar to JC5807 typ protein - rat [R.norvegicus], EST, Weakly similar to TRP1_MOUSE TRANSIENT RECEPTOR POTE CHANNEL 1 (TRANSIENT RECEPTOR PROTEIN 1) (MTRP (TRP-RELATED PROTEIN 1) [M.musculus], transient receptor potential channel 1, transient receptor protein 1, transient receptor protein 4, transient receptor 4, transient receptor 4, transient receptor 4, transient receptor 4, transient receptor 4, transient receptor 4, transient receptor 4, transient receptor 4, transient receptor 4, transient receptor 4, transient receptor 4, transient receptor 4, trans

6/20/3		HOMOLOGUEA	Contract Contract	grafia sa	Atty. Dockel No. 44931-50390 Docs. No. 179333
Sag. (D No.	remitter	GenBant: Ace# Raf, Seq. ID No	Model Code	Hamalagava Guna Nama	Homologous Gluistor Namo
					EST, Highly similar to A41200 hyperfession-secondar price in So- free [R-nove]cus; ESTs, Highly similar to A51200 hyperfession-secondar price in So- free [R-nove]cus; ESTs, Weskly similar to 1500 hyperfession-secondar price in SA [H sappins], KIAA1504 protein, SA [H sappins], K
549	4589	AF062389	y.z		member 4 ESTs, Highly similar to 2008109A se
550	16007	AF062594	t	nucleoscme assembly protein 1-like 1	gene (R.norvegicus), ESTs, Highly similar to SET HUMAN SET PROTE [H.saplens], SET translocation, SET translocation, SET translocation, uncleosome assembly protein 1-like 1, nucleosome assembly protein 1-like 2, nucleosome assembly protein 1-like 4, nucleosome assembly protein 1-like 4, Nucleosome assembly protein 1-like 4
551	15761	AF062741			phosphatase 1G (formerly 2C), magnesium-dependent, gamma isoform
552		AF073839	p		NO.
553	18615	AF074608	s		
554	15797	AF084205	ſ		ESTs, Moderaley similar to 117935 sericell training sericell training story and training sericell training series
555	12932	AF102552			ESTS, Modorately similar to ASSSTS analysin 3, long spice from [H supping railyship 1, long spice from [H supping railyship 1, long spice from [H supping railyship 1, long spice from [H supping railyship 1, long spice from

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				-210-	
TWBUE !	260 . 13. V 19	HOMOLOGUEA			Aug. Docker Mo. 44227 - 40 Doc. Me. 177
909 ID	Mentifier	GenBank Acc./ Ref. Sag. ID No:		Homologous Gárió Namo	Homologous Gluster Name
556	18603	AI007649			EST, Moderately similar to A490 tumor cell suppression protein I [H.sapiens], KIAA1277 protein, hypothetical protein FLJ22457,
557	22733	AI007668	r		suppression of tumorigenicity 5
558	22746	AI007672 .	-		-
559	24109	AI007725	Generat	1	
560	15848	AI007820	n,v		HEAT SHOCK PROTEIN HSP SETA IR. Anoregicus, EST, We similar to HHMS84 heat shock; 84 - mouse [M. musculus], ESTS Highly similar to T46243 hypoth protein DKF2p761K0511. [H.sapiens], expressed sequent AL022974, expressed sequent C81438, heat shock sprotein, 84 kD, HSF-requisited tyrosine kinase
		A1007857 A1007877	f General		substrain, Homo aspiene CPM. FL114268 is, clone PLACETion PL114268 is, clone PLACETION PL11426 is similar to Homo sapiene s transducing adaptor molecula? protine-rich salvary protein, corr dos of clone pLMP125, Mus mus Similar to protine-rich protein, corr dos of clone pLMP125, Mus mus Similar to protine-rich protein Bes subfamily 2, clone MSC-18611 in cost, RIKEH CMA MP70012002 RIKEH
563		Al007893	f,u		
564		Al007948	d		<u> </u>
					EST, Highly similar to HS98 RAT HEAT SHOCK PROTEIN HSP 99 BETA (R.norvegicus), EST, Wea similar to HHMS84 heat shock pt 84 - mouse (M.musculus), ESTs, Highly similar to T46243 hypothe protein DKF2p761K0511.1 [H.sapiens], expressed sequence AL022274, expressed sequence CS1438, heat shock 90KD proteir
565	15849	A1008074	h		beta, heat shock protein, 84 kDa
	10049	A10080/9	h General		jueta, neat snock protein, 84 kDa

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-3. N. S. T.	of the same	Homorogae W	exotrators 	<b>计算机图明</b>	Ally, Dockel No. 44924 & Doc. No. 177
NO 45	Literation 1	Confort Ace/ Rof. Soc. ID No.	Model Godo	Homologous Gene Value	Manielogous Glysler Nerro
					EST, Highly similar to JC7230 chain (H. sapiens). EST, West of God and
567	16646	AI008190	,		gamma 4 subunit, guanine nucl binding protein 4
568	12683	A1008203	x		EST, Moderately similar to CGE MOUSE G2/MITOTIC-SPECIFI- CYCLIN B2 (M.musculus), EST Weakly similar to G2/MITOTIC- SPECIFIC CYCLIN B1 [R.norve Homo sapiens cDNA FLJ13342 clone OVARC1001950, cyclin A cyclin B1, cyclin B1, related sed 1, cyclin B2,
569	22018	A(008309			IESTs. Highly similar to PROTO- ONCOGENE SERINE/THREON PROTEIN KINASE PIM-1 [M.musculus], ESTs. Highly sim S55333 protein kinase pim-2 [M.musculus], ESTs. Moderately similar to S55333 protein kinase [M.musculus], Pim-1 oncogene, pro- oncogene, pim-2 oncogene, prin-2 oncogene, p
570	23917	AI008309	0		kinase pim3 phosphogluconale dehydrogena
571	22599	AI008458	General		
572 573	22698 14405	AI008578 AI008579	p,General		
574	4086	AI008629	r,x x		EST, Weakly similar to JH0446 autoantigen [H.sapiens], polymyositis/scleroderma autoar 1 (75kD)
					DnaJ (Hsp40) homolog, subfami member 1, DnaJ (Hsp40) homol subfamily B, member 12, DnaJ (Hsp40) homolog, subfamily B, member 4, DnaJ (Hsp40) homolos subfamily B, member 5, ESTs, V similar to HS4L HUMAN HEAT SHOCK 40 KDA PROTEIN 1 HOMOLOG [H.saplens], RIKEM 17000298420 gene, RIKEM EDNA
	3808				

TABLES		HOMOLOGUEA	EXOTATOXIS	州市市 一分學	Atty Docker No. 41924 \$1897 Doc Ito 17999
339.ID No.	Mentiller	GentBerts Areal Roft Sog (ID No.	Model Gode	Montelogous Gono Nama	formalismous Gluster Name
577	7785	AI008758	aa	dipeptidylpeptidase 4, dipeptidylpeptidase IV (CO26, adenosine dearninase complexing protein 2)	ESTs. Weakly similar to DPP4 MOUSE DIPEPTIDAY. PEPTIDASE IM. musculus), ESTs. Weakly similar DPP4 RAT DIPEPTIDAY. PEPTIDASE IM. Fig. 1994 (P. 1994), Per 1994 (P. 1994
578	16701	AI008838	9		
579	21789	AI008930	k		EST, Moderately similar to CYSR 1 CYSTEINE-RICH PROTEIN [R.norvegicus], ESTs, Weakly simila to \$12555 cystelne-rich protein (H.sapiens), cystelne and glycine-rich protein 1, cystelne and glycine-rich protein 2, cystelne-rich protein), cystelne rich protein, cystelne-rich protein 2, cystelne-rich protein 3, titymus LIM protein
580	21895	AI008971	General		
581	410	AI008974	i,aa,General		
582 583 584 585 586	21632 21596 22801 11876 2506	AI009167 AI009168 AI009197 AI009321 AI009341	General General General cc,General General		BCL2-associated athanogene 2, EST Highly similar to T08764 hypothetical protein DKFZp586C021.1 (H.sapiens
587	6382	AI009362	General		
588 .	14370	A1009427	k		EST, Weekly similar to PRCF_HUMP PROTEASOME COMPONENT MEC 1 PRECURSOR IH sapiens]. ESTS, Weekly similar to PRCF_HUMAN PROTEASOME COMPONENT MEC PRECURSOR (Insepens), subunit, beta type 10, proteasome (prosome, macropain) subunit, beta type 10, proteasome (prosome, macropain) subunit, beta type 10, proteasome (prosome, macropain) subunit, beta type, 10, proteasome (prosome, macropain) subunit, beta type, 10, proteasome (prosome, macropain) subunit, beta type, 10, proteasome (prosome, macropain) subunit, beta type, 10,
589	19275	A1009460	×		IEST. Moderately similar to ABP2_HUMAN ENDOTHELIAL ACTI BINDING PROTEIN [H.sapiens], ESTs. Moderately similar to ABP2_HUMAN ENDOTHELIAL ACTI BINDING PROTEIN [H.sapiens], filamin A. alpha (actin-binding protein 280), filamin B, beta (actin-binding protein- protein-278)
	4154	AI009467	g		
	3464 .	AI009589	cc		
	3926 19358	AI009592 AI009675	е		
			g g		
94					

Constant -					
- 466		HOWOTOGUS!			Atty, Dockrating, 43921-5030 Doc, No. 17939
NO: 11 SOOFTD:	ldentifler	GenBenk Acc./ Ref. Gen, ID-No	Moon ende	Homologous Gano Namo	Hamológovis Gluster Namo
596	5458	- Al009756	h	programmed cell death 6 interacting protein, programmed cell death 6- interacting protein	IEST, Moderately similar to T14756 hypothetical projection (JNF 2964F0923.1 Ht sagients), ES Weakly similar to A28996 proliner, brotein M14 precursor - mouse (Humuscuss), EST, Weakly similar PRP4 HUMAN SALIVARY PROLIN RICH PROTEIN PO PRECURSOR (Ht. sapients), expressed sequence A462446, polyh-pholingh proliner, nuclear 1, proline rich protein, prolinier proliner, brotein EstNI sudfamily 4, protein prosense dispersional properties of the proliner processor (Properties Properties P
597	6844	Al009770	9,1,00		
598	15627	Al009810	aa		EST Al317031, EST, Weakly similal R3HU16 ribosomal protein S16, cytosolic [H.saplens], expressed sequence AA420385, ribosomal protein S16
	22619	AI009825	d		
	7857	Al009898	j,l,m,z		
	13259	Al009946	îr .		
602	21105	AI010067	Generat		
	24627 12716	AI010102 AI010178	aa General	testis enhanced gene transcript, testis enhanced gene transcript (BAX inhibitor 1)	CGI-119 protein, RIKEN cDNA 5031406P05 gene, testis enhanced gene transcript (BAX Inhibitor 1) CGI-100 protein
605	18757	JAI010216	aa		
606	2912	AI010220	aa,General		RIKEN cDNA 6720456I16 gene, claudin 10, claudin 15, claudin 7
607	3316	AI010237	jt .		
608	15644	AI010256	General		ESTs, Highly similar to HISTONE H [R.norvegicus], H3 histone, family 3 H3 histone, family 3B, H3 histone, family 3B (H3.3B)
	657 3271	Al010262	Ь		colony stimulating factor 2 receptor, beta 1, low-affinity (granulocyte- macrophage), interleukin 4 receptor, interleukin 4 receptor, alpha
	11081	AI010303 AI010407	lb lbb		
1		,	<u> </u>		DNA segment, Chr 3, ERATO Doi 5
				ceruloplasmin,	Weakly similer to CERU RAT CERULOPLASMIN PRECURSOR [R.norvegicus], ESTs, Weakly simila to KUHU ferroxidase [H.sapiens], Hermansky-Pudlak syndrome 3, cerutoplasmin, ceruloplesmin
	16521	AI010470	.c.s.t.General	ceruloplasmin,	1012298A factor VIIIC [H.sapiens], ESTS, Weakly similar to CESTS, Weakly similar to EMBOUSE CERULOPLASMIN PRECURSOR [M.muscubs], JESTS, Weakly similer to CERU RAT CERULOPLASMIN PRECURSOR (R.noregicus), ESTS, Weakly simila to KUHU ferroxidase [H.sapiens], Hermansky-Pudlak syndrome 3,
313	6927	AI010542	General	ceruloplasmin, ceruloplasmin.(ferroxidase)	1012298A factor VIIIC [H. sapiens]. ESTS. Weakly similar to CERU, MOUSE CERLLOPLASMIN PRECURSOR (M musculus), ESTS, Weakly similar to CERU RAT CERULOPLASMIN PRECURSOR (R. norvegicus), ESTS, Weakly similar to KUHU Hernoldsee [H. sapiendome 3, cerutoplasmin, ceruloplasmin (terroxidase), hephaestin (terroxidase), hephaestin
513 I	6927 17524	AI010542 AI010568	General a.j.y.General	ceruloplasmin, ceruloplasmin.(ferroxidase)	101228A factor VIII.C [H. sapiens], ESTs, Weakly similar to CERU MOUSE CERULOPLASMIN PRECURSOR (M. musculus), ESTs, Weakly similer to CERU RAT CERULOPLASMIN PRECURSOR (R.norvegicus), ESTs, Weakly simila to KUHU ferroxidase [H. sapiens], Hermansky-Pudlak syndrome 3, cerutoplasmin, ceruloplesmin
513 I	6927	AI010542	General	ceruloplasmin, ceruloplasmin.(ferroxidase) growth hormone receptor	101228A factor Vilic [I is sajens]. ESTS, Weaky similar to CERU MOUSE CERULOPLASMIN PRECURSOR, Washington, CERULOPLASMIN PRECURSOR, REVIEW Washy similar to CERU RAT CERULOPLASMIN PRECURSOR, Runorvegicus]. ESTS, Weakly similar to CERU RAT Ceruloplasmi, eSTS, weakly similar to CERULOPLASMIN PRECURSOR, Runorvegicus]. ESTS, weakly similar to KHUH ferroicides (H sajens), Hermansty-Pudiak syndrome 3, cerutoplasmin, cerutoplasmin, cerutoplasmin, cerutoplasmin, cerutoplasmin, growth hormone receptor
513 514 515 516	6927 17524 6946 23509	AI010542 AI010568 AI010642 AI010962	General a.j.y.General n	ceruloplasmin, ceruloplasmin.(ferroxidase) growth hormone receptor	1012298A factor VIIIC [H. sapiens]. ESTS. Weakly similar to CERU, MOUSE CERLLOPLASMIN PRECURSOR (M musculus), ESTS, Weakly similar to CERU RAT CERULOPLASMIN PRECURSOR (R. norvegicus), ESTS, Weakly similar to KUHU Hernoldsee [H. sapiendome 3, cerutoplasmin, ceruloplasmin (terroxidase), hephaestin (terroxidase), hephaestin
513 514 515 516	6927 17524 6946 23509	AI010542 AI010568 AI010642 AI010962 AI011285	General a.j.y,General n aa	ceruloplasmin, ceruloplasmin.(ferroxidase) growth hormone receptor	101228A factor VIIIC [H-sapiens], EST3, Weaky ismire to CERU MOUSE CERULOPLASMIN MOUSE CERULOPLASMIN PRECURSOR (Manusclus), EST4, Weakly similer to CERU RAT CERULOPLASMIN PRECURSOR (R norvegicus), EST5, Weakly simile to KUHU ferroxidese (H-sapiens, Hermansky-Pudlak syndrome 3, ordwojsemin, ceruloplesmin (ferroxidase), haghaestin growth formone raceptor RIKEN DDN AS 50028H01 gene,
513 514 515 516 517 518	6927 17524 6946 23509	AI010542 AI010568 AI010642 AI010962	General a.j.y.General n	ceruloplasmin, ceruloplasmin.(ferroxidase) growth hormone receptor	101228A factor VIIIC [H.saplens], ESTS, Weaky similar to CERU MOUSE CERULOPLASMIN MOUSE CERULOPLASMIN PRECURSOR WAS AND AND AND AND AND WASHINGTON AND AND AND AND AND AND WASHINGTON AND AND AND AND AND AND AND CERULOPLASMIN PRECURSOR (R.norvegicus), ESTS, Weakly similar to KUHU ferroxidese (H.saplens), Hermansky-Pudak syndrome 3, orothoplasmin, ceruloplasmin (ferroxidase), haphaestin growth formore raceptor RIKEN DNA 25 10028H01 gene,

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MBUE 8	), THUMAN	FOMOLOGUE A	CHOILAIONS		Attyr. Docksof No. 44929 -5939000 Dock No. 1993397. (
309.ID Xo			Modal Gode	Homologous Gara Namo	Homologitus Chuster Namo
622	12629	Al011492	e,f		HYA22 protein, conserved gene amplified in osteosarcoma, nuclear LIM interactor-interacting factor
623	735	Al011560	,		Homo sapiens, Similar to RIKEN cDNA 2300002L21 gene, clone MGC:17528 IMAGE:345896, mRNA, complete cds, RIKEN cDNA 2300002L21 gene, \$100 catcium-binding protein A12 (calgranulin C), \$100 catcium-binding protein, beta (neural), \$100 protein, beta pokypeptide, neural
624	3941	Al011598	General		ESTs, Moderately similar to 2113291A laminin:SUBUNIT, Usher syndrome 2A (autosomal recessive, mild) homolog (human), hypothetical protein, MGC: 8159, laminin, alpha 5
625	17550	AI011607	i.General		butyrobetaine (gemma), 2-oxoglutarate dioxygenase (gamma-butyrobetaine hydroxylase) 1, epsilon-trimethyllysine hydroxylase
626	10636	AI011634	0		
627	3995	AI011678	General	I	
628	16112	A1011706	h		FACTOR, ARGININE/SERINE-RICH 5 (Rnonegicus), Mus musculus, Similar to spicing factor, arginine/serine-rich 7 (380), clean McG.288 IMAGE:2646396, mRNA, complete cost, neural-saint serine/serine-rich 3, spicing factor, arginine/serine-rich 3, spicing factor, arginine/serine-rich 3, (5Rp.20), spicing factor, arginine/serine-rich 5, spicing factor, arginine/serine-rich 5, (SRp.40, HRS)
629 630	13354 12745	AI011757 AI011799	c cc		Fc fragment of IgG, high affinity le, receptor for (CD64), Fc fragment of IgG, low affinity Illa, receptor for (CD16), Fc fragment of IgG, low affinity Ills, receptor for (CD16), Fc receptor, IgG, low affinity III, expressed sequence BB219290
631 632	18684	Al011812 Al011982			DKFZP564O123 protein, putative breast adenocarcinoma marker (32kD)
532	4205	AIU1 1962 .	Ь		chromosome 1 open reading frame 25,
533 534	6518 17407	AI012114 AI012145	General General		hypothetical protein FLJ20244
635	13093	AI012177	r		FK506 binding protein 4 (59 kDa), FK506 binding protein 8 (38 kDa), FK506-binding protein 4 (59kD), FK506-binding protein (6 (36kD), FK506-binding protein like, RIKEN cDNA 2210019E14 gene
636	15395	AI012216 *	ſ		Fas-associated factor 1, ORF, RIKEN cDNA 2210404D11 gene, UBX domain containing 2, expressed sequence AA408698, expressed sequence AI196514, putative glialblastoma cell differentiation-related

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T17226 hypothetical proteins   DFC595650223   Haspiens   Haspiens   OFC595650223   Haspiens   Has	VABUE (	): CHUMAN	HOMOTOGAE VI	NOTATIONS	t fire B	Ally, Dockoline, 44921-50:00 Doc. No. 179:33
SET_X83392_ESTA_Highly similar To TYZES by SUPPLIED (SETA_TRANS)				Madel Code V		
SST8, Weakly similar to NHPX R   NHPZ/RSS PAMILY PROTEIN   NHPX R   NHPZ/RSS PAMILY PROTEIN   NHPX R   NHPZ/RSS PAMILY PROTEIN   NHPX R   NHPZ/RSS PAMILY PROTEIN   NHPX R   NHPZ/RSS PAMILY PROTEIN   NHPX R   NHPZ/RSS PAMILY PROTEIN   NHPX R   N						EST XX3352, ESTs, Highly similar it T17226 hypothetical protein DKF2566G223.1 [H. sapiens]. Hom sapiens, Similar to chloride intracellular channel 4, chone MGC.8812 MAGE:3861372, mRNA complete ods, RIKEN CDNA 573053 TEI 2 gene, chloride intracellular channel 1, chloride intracellular channel 4 (mitochondris hypothetical protein DKF2p434N127 intracellular chloride for channel
ESTS, Weakly similar to NPSY R NP2/RSF PARILY PROFITED	638	3981	AI012235	i,General		7
44  24/200	639			ir		YEL026W HOMOLOG [R.norvegicus RIKEN cDNA 2410130M07 gene, no histone chromosome protein 2 (S. carevisiae)-like 1, nucleolar protein family A, member 2 (H/ACA small nucleolar RNPs), sperm specific
A012375   Common				w		antigen 1
453 17247 A012439 Q. Openeral   454 1727 A012449 D. Openeral   455 1304 A012471 b b   456 1304 A012471 b a   457 1304 A012471 b a   458 1304 A012471 b a   458 1305 A012481 B a   458 1305 A012481 B a   458 1305 A012481 B a   458 1305 A012481 B a   458 1305 A012481 B a   458 12490 A012537 General   459 12490 A012537 General   459 12490 A012537 General   459 12490 A012537 General   459 12490 A012537 General   459 12490 A012537 General   459 12490 A012537 General   459 12490 A012537 General   459 12490 A012537 General   459 12490 A012537 General   459 12490 A012537 General   459 12490 A012537 General   459 12490 A012537 General   459 12490 A012538 General   459 12490 A012538 General   459 12490 A012538 General   459 12490 A012538 General   459 12490 A012538 General   450 12490 A012538 General   450 12490 A012538 General   450 12490 A012538 General   450 12490 A012538 General   450 12490 A012538 General   450 12490 A012538 General   450 12490 A012538 General   450 12490 A012538 General   450 12490 A012538 General						
144   1727   Al012444   O_General						
648 3304 A0174241 b  646 2311 A0174242 g  647 2017 A0174269 g  648 278 A0174241 b  648 278 A0174241 g  659 41135 A0174261 g  650 41135 A0174261 g  660 411				9		
A012485   aa						
A01289   Q.A.G.						
\$488 \$493 A0172590 V.General \$498 \$8975 A0172612 General \$509 11335 A0172613 General \$509 11335 A0172613 General \$512 74090 A0172637 General \$52 2015 A0172637 General \$52 2015 A0172637 General \$53 8476 A0172637 General \$53 8476 A0172637 W.General \$53 8476 A0172637 W.General \$54 422 A017269 General \$55 23128 A017261 General \$55 23128 A017261 General \$55 23128 General \$55 23128 A017261 General \$57 24726 A017267 W.General \$58 2476 A017267 W.General \$58 2476 A017267 W.General \$59 2476 A017267 General \$59 2476 A017267 W.General \$50 2476 A017267 W.General						
Alica   Alic						
1335   A0172619						
14409				General		
SEZ				<u></u>		
EST, Weakly similar to \$337 to   ribbornal prices \$20, vipole \$2						
	553	8476	AI012647	w		ribosomal protein S20, cytosolic [H.sapiens], Mus musculus, Similar tribosomal protein S20, clone MGC:6876 IMAGE:2651405, mRNA, complete cds, expressed sequence
20086				General		1
(ESTs, Highly similar to A20061 g)						1
557   11989   A013273   k   member 1 559   2814   A013337   p						precursor [H.sapiens], ESTs, Highly similar to A2746 gila-deved nexin lalpha precursor [H.sapiens], ESTs, Weakly similar to GLIA DERIVED NEXIN PRECURSOR (R.norvegicus) serine (or cysteine) proteinsse inhibitor, clade E (nexin, plasminoger activator inhibitor type 1), member 2, serine (or cysteine) proteinse.
558 25447 A013337 taa 559 8815 A013437 p 560 19722 A013508 k 661 6674 A013508 General 562 23446 A013647 ot	557	11969	AI013273	lk .		
1972 AI013508 k 1972 B674 AI013568 General 1952 23145 AI013647 O.1				aa		1
561 6674 AI013568 General 562 23145 AI013647 o.t	559	8815	AI013437			
562 23145 AI013647 O.t						
						1
563 15130 AI013676 w						1

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TABLE	a: ciumax	HOMOLOGUE A	MOTATIONS		Ally, Dockol No. 44921-5039W Doc. No. 1793397
Sag. ID No. 1	(Gentifier	Good Good Roll Song ID Mo	Model (exch	formologous Cerro Namo	Homologous Gluster Name
664	7274	AI013715	aa		Bone morphogenetic protein 6, bone morphogenetic protein 5, bone morphogenetic protein 6, bone morphogenetic protein 7, bone morphogenetic protein 7, bone morphogenetic protein 7 (osteogenic protein 1), growth differentiation facto 15
665	7276	AI013730	le		
666	7278	AI013738	y,z,aa		
667	22592	AI013740	s,x,bb,General		ESTs, Weakly similar to \$32567 A4 protein [H. sapiens], Homo sapiens, Similar to RIKEN cDNA 2900052H21 gene, clone MGC:21625 IMAGE:4214683, mRNA, complete cds, Homo sapiens, clone MGC:1976. MIAGE:431645, mRNA, complete cds, proteolipid protein 2 (colonic epithellum-enriched)
					Mus musculus retinal cone arrestin 3 (Arr3) mRNA, complete cds, RIKEN cDNA 1200006117 gene, arrestin, beta 2, expressed sequence Al326910,
668	16584	AI013765	w		retinal S-antigen
669 670	24143 15928	Al013804 Al013829	a,General		
671	21950	Al013851	j		3-hydroxyisobulyrate dehydrogenase, ESTs, Highly similar to D3H1_HUMAN 3-HYDROXYISOBUTYRATE DEHYDROGENASE, MITOCHONDRIAL PRECURSOR (HIBADH) [H.sapians], cytokino-like nuclear factor n-pac
672	3260	AI013875	t		
673	2708 8585	AI013882 AI013886	d,q	L	
674 675 676	7299 15904	AI013911 AI013971	p,r,t,General General		Haspines PABII pseudogens. Nursen DNA sequence from PAC 55808 on chromosome 1g24-1g25. Contains profilin-like pseudogene. 605 ribosomal protein L4 pseudogene RNS inbosomal protein L4 pseudogene RNS inbosomal protein L4 pseudogene RNS inbosomal southern protein L557, GSS, Mus musculus adult male longue CDNA. RICKEN full-length enched library. doi:ne.2310/74E15, ful insert persentation of the protein L557, Machine Marchael protein L57, Machine mortification of the protein L57, Machine mortification of the protein L57, Machine mortification of the protein L57, Machine mortification under protein L57, Machine mortification under protein L57, Machine mortification under protein L57, Machine mortification under protein L57, Machine mortification under protein L57, Machine Machi
				1	EST, Moderately similar to
677	12781	AI014023	w		Y124_HUMAN HYPOTHETICAL PROTEIN KIAA0124 [H.sapiens], block of proliferation 1
678	19372	Al014135 ,	aa		EST, Moderately similar to 0806162D protein COII [M. musculus], EST, Weakly similar to 810024D cytochrome oxidase II [H. sapiens] DKFZP5642416 protein, EST, Moderately similar to T14738
679	4241	AI014140	w	1	hypothetical protein DKFZp564A2416.1 [H.sapiens], Homo sapiens cDNA FLJ14138 fis, clone MAMMA1002765, hypothetical protein FLJ13117

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1000	200	THOMOTOGAE			
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839, ID No.		AND DESCRIPTION OF THE PERSON			Des. No. 179889
		Goneank Acc. And Son IDM	n. Model Gode	Homologous Care Name	Nomologous Cluster Namo
			cu cu		Homo sapiens cDNA: FLJ22783 fis, clone KAIA1993, Homo sapiens mRNA; CDNA DKFZp434B102 (from clone DKFZp434B102), KIAA1376 (protein, expressed sequence AV216361, upregulated by 1,25-
680	15247	AI014169	,c,u		diftydroxyvitamin D-3 ESTs, Highly simitar to JE0363 mitogen-activated protein kinase kinase kinase [H.sapiens], mitogen activated protein kinase kinase kinase 5. mitogen-activated protein kinase
681	7315	AI028831	Jn		kinase kinase 6
682	16631	AI028856	General		ESTs, Moderately similar to RUXG_HUMAN SMALL NUCLEAR RIBONUCLEOPROTEIN G [H.sapiens], small nuclear
683 684	23297	AI028953 AI029015	Ь .		ribonucleoprotein polypeptide G
685	2866	AI029015	n.y	<u> </u>	<del> </del>
686	12812	AI029126	General	1	
687	17602	AI029156	P		
688	7392	AI029185	aa		
689	6517	AI029264	d,k,x		4
690	7639	AI029292	b	l	ESTs, Moderately similar to
691	3874	AI029428	i,General		CB80_HUMAN 80 KDA NUCLEAR CAP BINDING PROTEIN [H.sapiens] Homo sapiens cDNA FLJ11599 fis- clone HEMBA1003879, nuclear cap binding protein subunit 1, 80kD
692	12819	AI029437	If	1	
693	7452	AI029466	r	<u> </u>	
694	7493	AI029608 AI029829	b		<del></del>
696 697	7537 2310	AI029829 AI029969	o,General	ļ	
697 698	7585	AI029969 AI030023	'V		
698 699	7585 7586		x		
		AI030024	b,n		4
700	14492	AI030091	lcc		EST, Weakly similar to 1605244A
	10673 7615	Ai030134 Ai030163			enythrocyte ankytin (H. sapiensi), EST8 Weakly silmar In SSS44 g protein phosphatase 1 M Chain M 110 soform services of the protein phosphatase 1 M Chain M 110 soform services from Committee 1 M 110 soform services from Committee 1 M 110 soform services from Committee 1 M 110 soform services from Committee 1 M 110 soform services from Committee 1 M 110 soform services from First 1 Soform ST4 s
	7615 2370	AI030163 AI030179	O,r General		-
	2370 7681	AI030179 AI030449	General		

TWBLE	E JAUDIYANI	HOMOLOGUEA			Air Dodri No. 44921-5059W Dos. No. 1793597
Seg. ID No.		GonBank Acc/ Ref. Sec. ID No.	Model Gode :	Kamalageus Cane Kene	Chamaiograe Chetar Namo
705	11559	AI030472	General		
706 707	7665 24222	A1030668 A1030704	t,bb	nucleosome assembly protein 1-like 1	ESTs. Highly similar to 2008 108A sep- gene [R. novegicus]. ESTs. Highly similar to SET. HUMAN SET PROTE! [H. sapiens]. SET translocation, SET translocation (myeloid leukemia- associated), nucleosome assembly protein 1-like 1, nucleosome assembly protein 1-like 2, nucleosome assembly protein 1-like 2, nucleosome assembly protein 1-like 2, nucleosome assembly
708	10740	AI030743	h		1
709	10742	AI030773	e	<del></del>	<del> </del>
711	16169	AI030932	General		RIKEN cDNA 1300012C15 gene, RIKEN cDNA 2310076L09 gene, adipose differentiation related protein, adipose differentiation-related protein
712	19527	AI030991	ļ¹		-
713	3167	Al031004	r		ClpP (caseinolytic protease, ATP- dependent, proteolytic subunit, Ecoli) homolog, caseinolytic protease, ATP- dependent, proteolytic subunit homolog (E. coli)
715	5350	AI043611	a		Homolog (E. Con)
716	7858	AI043654			
717	10784	AI043678	d		<del></del>
718	9180	AI043694	aa		
719 720	7867 7584	A1043695 A1043724	aa General		AMIDOPHOSPHORIBOSYL TRANSFE RASE PRECURSOR (H. sapiens). ESTS, Moderately similar to LESTS, Moderately similar to LESTS, Moderately similar to MAIDOPHOSPHORIBOSYL TRANSFE RASE PRECURSOR (H. sapiens). RIKEN CDN. 370454C12 gene, expressed sequence AA573531, expressed sequence AA573531, expressed sequence AA573531, expressed sequence AA573531, expressed sequence AA573531, proposphate transarinase 2, glutamine-fructose- fonosphate transarinase 2, phosphoribosyl pyrophosphate similoriansferse.
720					4
721 722	7895	AI043768 AI043805	e General		<del>                                     </del>
	7913		66.		ELL-RELATED RNA POLYMERASE II ELLONGATION FACTOR, ESTS, Highly similar to ELL2, HUMAN RNA POLYMERASE II ELONGATION FACTOR ELL2 H-saperal, ESTS, POLYMERASE II ELONGATION FACTOR ELL2 H-saperal, ESTS, POLYMERASE II ELONGATION FACTOR ELL IB Museuchus, ESTS, Weakly similar to ELL2 HUMAN RNA POLYMERASE II ELONGATION FACTOR ELL2 HESPIANI JUNE FACTOR ELL2 HESPIANI JUNE FACTOR ELL2 HESPIANI JUNE FACTOR ELL2 HESPIANI JUNE FACTOR ELL2 HESPIANI JUNE FACTOR ELL2 HESPIANI JUNE FACTOR ELL2 HESPIANI JUNE FACTOR ELL2 HESPIANI JUNE FACTOR ELL2 HESPIANI JUNE FACTOR ELL2 HESPIANI JUNE FACTOR ELL2 HESPIANI JUNE FACTOR ELL2 HESPIANI JUNE FACTOR ELL2 HESPIANI JUNE FACTOR ELL2 HESPIANI JUNE FACTOR ELLO FACTOR
				L	protein FLJ22637
723	2800	A1042004	(		
724			,		
	6766	AI043914	f g,l,m,Generat	***************************************	

VABLE	3) HUMAN	HOMOLOGUEAL	EXIOTATIONS		7 Ality. Doctors No. 4/22/1-2020 10 08 No. 1790327
Seg, ID No.	remiller	Conduct Acc. Rof. Seq. (D No.	Modd Gods	Homologous Onio.	
728	5393	AI044170	p		
729	5398	AI044177	q		
730	5425	A)044237	a.d		[EST, Weakly similar to \$58955 collagen alpha (fill) chain precursor-mouse (M. musculus), ESTs, Weakly similar to \$58955 collagen alpha 1(III). Home special policy of the protein FLL20793, John MGC 1005 MAGGE-3139876, mRNA, complete of the protein FLL20793, John MGC 1005 MAGGE-3139876, mRNA, complete occi, expressed sequence AW122071 hypothetical protein FLL10355, proceedings, nyservers and protein FLL10355.
730	5425	A1044237	a,o		2,4-dienoyl CoA reductase 1, mltochondrial, 2,4-dienoyl CoA reductase 2, peroxisomal, ESTs,
731	8692	A1044247	r		Weakly similar to LUNG CARBONYL REDUCTASE [Munsculus]. ESTS. Weakly similar to S11021 2.4-diencyl- CoA reductase (R.norvegicus), FabG (beta-kotoay)-facyl-cartier-problin] reductase, E coli) like, Komo sapiens AS 10 problem mRNA, partial cds. RIKEN CDNA 1200012F07 gene, RIKEN CDNA 130027F16 gene, Carbonyl reductase, carbonyl reductase 2, oxfordeductase UCPA
732	5430	AI044253	1		
733	5461	AI044338	g.p.General	<del> </del>	
734	5464	AI044345	<u> </u>		
735	3359 2695	AI044396	b		EST, Moderately similar to IL6B_HUMAN INTERLEUKIN-6 RECEPTOR BETA CHAIN PRECURSOR [H. sapiens], colony stimulating factor 3 receptor (granulocyte), cytokine receptor-like factor 1, interleukin 12 receptor, beta (z. interleukin 6 signal transducer (gp130, oncostatin M receptor)
738	5494	AI044425	General	<del>                                     </del>	
740	9882	AI044588	i,m		
741	5575	AI044688	q		
742	2348	AID44794	General	<u> </u>	

VABUE	3 HUMAN	VHOVOTOGNES	ANNOT - TOKE	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Atry, Docket No. 44221-51
eren (D Nen		GentBentk Accul 7 Ref. Seq. 10 M		Homologous Cons Nama	One No. 179
					EST, Moderately similar to JH01 nucleotin- rat (Rnovegious, E) Moderately similar to R8M8 - HU PUTATIVE RNA-RIBINDIN PRO PUTATIVE RNA-RIBINDIN PRO JH02 HU PUTATIVE RNA-RIBINDIN PRO JH02 HU PUTATIVE RNA-RIBINDIN PRO JH03 HU PUTATIVE RNA-RIBINDIN PRO PUTATIVE RNA-RIBINDIN PRO PUTATIVE RNA-RIBINDIN PRO PUTATIVE RNA-RIBINDIN PRO PUTATIVE RNA-RIBINDIN PRO PUTATIVE RNA-RIBINDIN PRO PUTATIVE RNA-RIBINDIN PRO PUTATIVE RNA-RIBINDIN PRO PUTATIVE RNA-RIBINDIN PRO PUTATIVE RNA-RIBINDIN PRO PUTATIVE RNA-RIBINDIN PRO PUTATIVE RNA-RIBINDIN PRO PUTATIVE RNA-RIBINDIN PRO PUTATIVE RNA-RIBINDIN PRO PUTATIVE RNA-RIBINDIN PRO PUTATIVE RNA-RIBINDIN PRO PUTATIVE RNA-RIBINDIN PRO PUTATIVE RNA-RIBINDIN PRO PUTATIVE RNA-RIBINDIN PUTATIVE RIBINDIN P
743	18205	AI044836	'n	į.	I(12;16) malignant liposarcoma
744	5626	Al044864	u		
745	5630	AI044869	1		
746	5634	AI044883	General		
747	4047	Al044947	.l,m		
748 749	5654	AI044976 AI045056	w	1	
					ESTs, Highly similar to BGAL MC BETA-GALACTOSIDASE PRECURSOR (M.musculus), ES Weakly similar to BGAL MOUSE GALACTOSIDASE PRECURSOI (M.musculus), Homo sapiens, cic IMAGE:3502329, mRNA, partial
					Homo sapiens, clone IMAGE:393 mRNA, pertial cds, RIKEN cDNA 4833408P15 gene, galactosidase
750	19235	AI045074	General		beta 1
751	5689	AI045075	i,aa,General		ESTs. Weakly similar to
					MCAT_HUMAN MTOCHONDRI. CARNITINES/CYCLARMITINE CARRITER PROTEIN [H.sapiens], expressed sequence AW109604, solute carrier family 25 (carnitines/cyclamitine translocat member 20, solute carrier femily; (michodnoid carnitines/cyclamit translocase), member 20, solute carrier family 25 (michochorditar carrier family; (michodnoid carrier; carrier), michodnoid carrier; carrierine transporter), member 15, uncoup protein 2 (michochordita), protein transporter), member 15, uncoup protein 2 (michochordita), protein

TABLE 8	E HUMAN	AEUEOJOMON	NNOVATIONS		Auty, Dooket No. 44920-50390 Ros. No. 179330
899.ID No.	trontifer	GentBenit: Acc./ Ref. Seq. 10 No.	Modal Goda	Homologous Cana Nama	Charles Remo
					ESTs, Moderately similar to K852 MOUSE RIBOSOMAL PROTEIN 58 KINASE BETA 2 (S6K BETA 2) (70 KOA RIBOSOMAL PROTEIN 58 KINASE BETA 2) (70 KOA RIBOSOMAL SK KINASE BET (P70 S6KBETA) (S6KC) MINUSCULIVIMA (never in mitosis gene a)-reisis expressed sergenessed sequence A255796, expressed sequence A255796, expressed
			1	1	sequence AW319595, ribosomal protein S6 kinase, 70kD, polypeptide
753	19237	AI045153	c	1	2, serine/threonine kinase 5
754	9964	AI045161	f	1	
755 .	5735	AI045223	1		
756	5474	AI045477	a,General		
757	5811	AI045502	d,e		
758	5819	AI045537	General	1	1
759	5839	Al045594	P		1
760	6808	AI045600	1.	1	TRAM-like protein, translocating chair
761	17755	AI045608	ls	-	associating membrane protein
763	10020	AI045632	y a	1	
764	5855	A1045669	General	+	
					B aggressive lymphoma gene, DKFZP434J214 protein, KIAA1268
765	5881	AI045789	1	1	protein KIAA0138 gene product, hypothetica
766	5897	AI045862	General	1	protein FLJ13213, scaffold attachmen
767	5900	AI045866	ly,z		fector B
	7540 5329	AI045882 AI045970	o.t.General		EST, Wastly similar to C29146 profit of hypriden - mouse [Munusculus], ESTs, Wastly similar to C29149 profilen-fich profilen - mouse [Munusculus], KIAA0999 profilen- Kouse 91-KD priore-drin salivary profilen, compete cds of closes profilen, compete cds of closes profilen-fich profilen-fich profilen- profilen-fich profilen-fich profilen- profilen-fich profilen-fich profilen- fich profilen-fich profilen- fich profilen-fich profilen-fich profilen-fich profilen-fich profilen-fich profilen-fich profilen-fich profilen-fich profilen-fich profilen-fich profilen-fich profilen-fich profilen-fich profilen-fich
	15093	AI058285	d		<del></del>
	8002	A1058304	ř		<del> </del>
		AI058341	c	1	
		AI058359	General		Cdc42 effector protein 2, Cdc42 effector protein 3
		AI058603	aa		la nacroi brorain 2
		AI058730	aa	<del>                                     </del>	
		AI058746	9		1
		AI058759	General	<del> </del>	
		AI058762	f		<del></del>
			88		ļ
80	4789	A1058889	General		<del> </del>
81	8221	AI059061	General		
82	10159	AI059147	d		

TABLE	O: HUMAX	HOMOLOGUEA	- EXPORACIONS	中華中華	ANY, Design No. 44920-50000 Doc. No. 177000
999. ID		ConConk Acc./	THE RESERVE	Mamologous Gene	F NORWINGER
No.	ldentifiér	Ref. Seq. (D No.	Model@ode 3	Manno	Homologius Givster Namo
					EST, Weakly similar to GBLP - JUMO GUANINE NUCLECTIDE-BINDING PROTEIN BETA SUBUNIT-LIKE PROTEIN 12.3 [H.sapiens], Homo sapiens mRNA for FLJ00083 protein partial cds, IRA1 protein, Rattus norvegicus Syrague Dawley protein kinase C receptor mRNA, complete cds, WD repeat domain 5, expressed cds, WD repeat domain 5, expressed
783	l		1		sequence AL033335, hypothetical
784	8245	Al059154 Al059290	D .		protein, recombination protein REC14
785	8314	A1059290 A1059386	g,General		
786	10200	AI059366	g,General		
	10200	71033111	<del> </del>		DKFZP566D213 protein, EST.
787	8347	Al059519	S		Moderately similar to EPIDERMAL Moderately similar to EPIDERMAL M. MISCOURSOR M. MISCO
788	18359	A1059675			EST, Highly similar to TERA HUMAN [H. salpring], EST, Weakly similar to T46437 hypothetical protein ORF2254400122, [H. salpring], ESTs ORF2254400122, [H. salpring], ESTs Weakly Similar to TERA PATT TERA HUMAN [H. salpring], ESTs, Weakly similar to TERA PATT TRANSTIONAL ENCOPLASMIC ERTCULLUM TAPSE [RANOPEGIN ERTCULLUM TAPSE [RANOPEGIN (RICK) CDM 4353143510 gme, RIKKS CDM 43541402 gms, Wallotin containing protein, valosin- containing protein, valosin- containing protein, valosin- containing protein, valosin-
789	110281	AI059947	b,t		7
90	8494	AI059968	aa		1
91	8495	AI059971	General		Homo sapiens (clone NCD18) tumor necrosis factor receptor related protein mRNA, complete exon and repeat region, lymphotoxin B receptor, lymphotoxin beta receptor (TNFR superfamily, member 3), tumor necrosis factor receptor superfamily, member 8
92	8496	AI059974	General		KIAA1685 protein, KIAA1713 protein
93	10289	410E00E3	. 1		CGI-142, RIKEN cDNA 3930401K13
94		AI060053 AI060176			gene
95	8565	AI060176 AI060236	k		
96			.y.z		
97		AI060279 AI069939	.7.4		+
98	8785		,		IK cytokine, down-regulator of HLA II, Mus musculus, Similar to IK cytokine, down-regulator of HLA II, clone MsG:25508 IMAGE:4920184, mRNA, complete cds
99	17506	AI070068	oc ,		growth arrest and DNA-damage- inducible 45 beta, growth arrest and DNA-damage-inducible, alpha, growth arrest and DNA-damage-inducible, beta

	Sales .	HOWOTOGREY	NNOTATIONS		ALLY Docket No. 41924-6161 Doc. No. 17938						
Socj.(D	100	Good and Accel	THE PROPERTY OF	Homologous Gano	2 101.0 April 1						
No.	dentifier	Roll Seq. 10 No.	Model Code	Memo	Homologous Cluster Name						
					ESTs, Highly similar to NUCL_HUM NUCLEOLIN [H.sapiens], Nucleolin						
					RIKEN cDNA 0610010A22 gene, eukaryotic translation initiation factor						
	1				3, subunit 4 (delta, 44 kDa), eukary						
800	9067	A1070087	General	1	translation initiation factor 3, subuni (delta, 44kD), nucleolin						
					CGI-97 protein, EST, Weakly simila						
	1	1	1		YC97_HUMAN HYPOTHETICAL						
301	3551	AI070122	10		PROTEIN CGI-97 [H.sapiens], RIKE						
302	4967	AI070179	k	<del> </del>	cDNA 4733401P19 gene						
103	18	AI070195	General	<del> </del>	glia maturation factor, gamma CGI-20 protein						
	-		Concier	<del> </del>	armadillo repeat gene deletes in						
		1	1		velocardiofacial syndrome, catenin						
	l		1	ı	(cadherin-associated protein), delta						
	l			1	catenin (cadherin-associated protein						
				1	delta 2 (neural plakophilin-related a						
304	24197 8869	AI070314	General		repeat protein), plakophilin 4						
05 06	8869	A1070330	ļr								
107	10417	AI070336 AI070410	b,cc m								
~ .	10417	A1070410	in		toll-like receptor 1, toll-like receptor						
08	8901	AI070419	aa	1	toll-like receptor 1, toll-like receptor						
09	14424	AI070421	I.p.General		Torring receptor 2, torring receptor						
10	10434	AI070497	General								
11	8927	AI070523	v		1						
12	8946	AI070611	9								
13	8950	AI070621	w								
114	8972 8981	AI070673 AI070715	General								
116	26184 .	A1070784	u		binding protein - mouse (M. musculut ESTS, Modernity similar to MedSo) ONA-binding protein - mouse (M. musculut), ESTS, Weakly similar to (ESTS), Weakly similar (ESTS), Weakly similar (ESTS), Weakly similar (ESTS), Weakly similar (ESTS), Weakly (ESTS), weakly similar (ESTS), weakly similar (ESTS), weakly similar (ESTS), weakly (ESTS), weakly similar (ESTS),	17	3007	AI070824	w		Weakly similar to T08675 hypothetical protein DKFZp564F0522.1.[H.sapien:
18	8999		P		protein orti apportosza. I jin. sapien						
					ESTs, Highly similar to NRP2_RAT						
					NEUROPILIN-2 PRECURSOR (VASCULAR ENDOTHELIAL CELL						
					GROWTH FACTOR 165 RECEPTOR 2) [R.norvegicus], neuropilin 2, neuropilin-2, platelet derived growth						
			e,f		factor C						
			k .								
			General								
22 ]5	9212	AI071098									
					cell division cycle 25 homolog B (S. cerevisiae), cell division cycle 25 homolog C (S. cerevisiae), cell divisio cycle 25B, cell division cycle 25C,						

TABLE	DE CHUMAN	HOMOROGUEN	ENDIVATORIS		AUY, DOGROLNO, 44924-50390 Dog. No. 179307
9339. (D Xo.	Plantitier	GariBard: Acc./ Ref. Seq. (D No.	Model Gode	Nambegous Gene Namb	Namblegous Cluster Name
824	11005	AI071139	· r		
825	9104	A)071173	im.		EST's. Highly similar to ROG HUM HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN G RIBONUCLEOPROTEIN G RIBONUCLEOPROTEIN G RIBONUCLEOPROTEIN G RIBONUCLEOPROTEIN G RIBONUCLEOPROTEIN G RIABRICAN TO SERVICE RICHARD ST RICHARD
826	9583	AI071185	General	1	Institution of the second of t
827	9644	AI071410	c	1	1
828	16058	AI071490	General		serine palmitoyitransferase, long cha base subunit 2
829	11057	AI071509	f,o	1	
831	5695	AI071566	bb		1
832	9671	AI071568	w		
833	22929	AI071578	General		DNA segment, human D4S114, P311 protein
834	9673	AI071581	General		
835	9699	AI071646	General		
837	9799	AI072008	q.y,z		
838 839	9808 22796	AI072050 AI072213	General		
840	9271	AI072213 AI072405	V		
841	10869	AI072405	w	ļ	
	21797	A1072439	General		EST X8352, ESTs, Hghyb similar to T17228 hypothetal protein DKF25660223.1 [H.sapiens], Homa sapiens, Similar to choride intracellular channel 4, olore MGC-8812 MAGS-381372, mRNA, complete cds, RIKCN cDNA 5705031E12 pen, choride intracellular channel 4, choride intracellular channel 4, choride intracellular channel 4, choride intracellular channel 6, thoride intracellular channel 6, thoride intracellular channel 6, thoride protein pG4H1.1
	9306	AI072521	r		
		AI072550 AI072559			
		AI072559 AI072634	an Conoral		
		AI072634 AI072658	cc,General General	<del></del>	
848	9363	AI072695	d		DnaJ (Hsp40) homolog, subfamily C, member 4, Homo sapiens, clone MGC:19482 IMAGE:4309314, mRNA, complete cds, hypothetical protein FLJ11506
		AI072841	n		
			w General		L
		AI073021	General (		
	55.10	, 3223			EST, Moderately similar to CARBONK ANHYDRASE II (R.norvegicus), carbonic anhydrase 2, carbonic anhydrase II, carbonic anhydrase VIII,
354	11183	AI100768	t		carbonic anhydrase-like sequence 1
			6	L	CONTROL BUILTY OF BUILTY OF BUILTY IN THE SEQUENCE I

	987 35 1.	HOWOFOGATE VI	A OF ATOM	sana lai	Atty. Docket No. 49221-4939 Doc. No. 17933					
X0°++		SonBont: Acc./ Rof. Seq. ID No.	it leider (Codo)	Monologous Com Using	Hemologova Olvater Namo					
856 857	2029 5687	Al100842	p							
858	15192	Al101006	g,cc		ESTs, Moderately similar to AF078 1 hqp0376 protein [H.saplens], expressed sequence AA409533					
859	17399	Al101157	0		ATP synthase, H+ Iransporting, mitochondrial F0 complex, subunit isoform 2, eST, Weakly similar to ATPK, HUMAN ATP SYNTHASE F CHAIN, MITOCHONDRIAL [H.sapiens], ESTs, Highly similar to ATPK, HUMAN ATP SYNTHASE F CHAIN, MITOCHONDRIAL [CHAIN, MITOCHONDRIAL], Hasopiens 2, eSTs, Highly similar to ATPK, HUMAN ATP SYNTHASE F CHAIN, MITOCHONDRIAL [H.sapiens].					
860	9339	Al101160	l,m,o							
861 .	6321	Al101256	General		ESTS, Moderalny similar to HETEROGENEOUS NUCLEAR RIBONUCLEOPROTEIN C. RIBONUCLEOPROTEIN C. Rinoregous, like musculus high- ghoriantyrosine protein type I ES mRVAL complete cs. RNAb hofflag protein p45AUF1, appressed seque C25064, Hestergenous nuclear nuclear fromucleoprotein C. Rubertogenous nuclear ribonucleoprotein D (AU-fré heteres ribonucleoprotein D (AU-fré heteres ribonucleoprotein D-Ribe préconucleoprotein					Rho GDP dissociation inhibitor (GDI beta, expressed sequence C87222, rho, GDP dissociation inhibitor (GDI
862	5421	AI101270	c		ets variant gene 5 (ets-related					
863	11910	AI101323	General		molecule)					
		AI101608	e							
		AI101901	Generat							
866	16324	Al102009	b		1					
867	18642	AI102023	0		brain-specific membrane-anchored protein, chromosome 1 open reading frame 8					
868			а	beta-carotene 15, 15'- dioxygenase, beta- carotene 15,15'- dioxygenase, frizzled (Drosophila) homolog 1, frizzled homolog 1, (Drosophila)	EST, Moderately similar to 08061621 protein COII [M.musculus], EST, Weakly similar to 810024D cytochror oxidase II.[H.sapiens]					
					ESTS, Highly similar to 201334BA Kinase SRPK [H.sapiens], Mus musculus 13 days embryo head cDh RIKEN full-length enriched library, clone:311005M20, full insert sequence, Mus musculus adult male lung cDNA, RIKEN full-length enrich library, clone:1200011B22, full insert sequence, SFRS protein kinase 1,					
869	7051	AI102055	h		rich protein specific kinase 2,					
			h c		SFRS protein kinase 2, serine/arginir rich protein specific kinase 2, serine/threonine kinase 23					
870 871	6544 10227	AI102064	h c		rich protein specific kinase 2,					
870 871 872	6544 10227 23849	AI102064 AI102248 AI102318			rich protein specific kinase 2,					
870 871 872	6544 10227 23849	AI102064 AI102248 AI102318	w		rich protein specific kinase 2,					

Septime		h	MOMOTOGALE VI	ANOTATIONS		ANY Docket No. 44921-6039W Ros. No. 1799397
GEF2_HUMAN GANGLOSIDE	Suq. (10 Xio >=	ldentifier.	GenBenk Acc./ Ref. Seq. (D No.	Model Gode		No. of Street,
ESTs, Weakly similar to   GEF2_HUMAN CANALOSISIDE	075	5007				GEF2_HUMAN GANGLIOSIDE EXPRESSION FACTOR 2 [R.norvegicus], GABA(A) receptor- associated protein-like 2, RIKEN cDN 0610012F20 gene, ganglioside
11503				ly ow		ESTs. Weakly similar to GEF2_HUMAN GANGLIOSIDE EXPRESSION FACTOR 2 [R.norvegicus], GABA(A) receptor- associated protein-like 2, RIKEN cDN 0610012F20 gene, gamma- aminobutyric acid (GABA(A)) receptor associated protein-like 1, ganqiloside
### Metalchiknosin-2   P. sapiens   EST   Moderate y miller is SHIPU   ST   MODERATE y miller is SHIPU   ST	876	11563	AI102560	General		
EST, Highly similar to 18623 Mouse primary response gene BM proposes gene BM proposes gene BM proposes gene BM proposes gene BM proposes gene BM proposes gene BM proposes gene BM proposes gene BM proposes gene BM proposes gene BM proposes gene BM proposes gene BM proposes gene BM proposes gene BM proposes gene GM proposes gene gene GM proposes gene gene gene gene gene gene gene g		15190	AI102562	b,g,n,p,v		Metallothionein-2 [H.sapiens], EST, Moderately similar to SMHU1E
19011						3'end - mouse [M.musculus], Homo saplens, clone MGC:16332 IMAGE:384243, mRNA, complete cds, RIKEN cDNA 120009106 gene, RIKEN cDNA 1600013K19 gene, similar to S. cerevisiae Sec8p and R. norvegicus rsec6, tumor necrosis
23537						factor, alpha-induced protein 2
Solute carrier family 20 (phosphase transporter), member 1, solute carrier family 20 (phosphase transporter), member 1, solute carrier family 20 (phosphase transporter), member 2, solute carrier family 20, member 2, solute carrier family 20, member 2, solute carrier family 20, member 2 member 2 member 2 member 2 member 2 member 2 member 2 member 3 member 3 member 3 member 4 member 4 member 4 member 5 member 5 member 5 member 6 member 6 member 6 member 6 member 6 member 6 member 6 member 7 member 7 member 7 member 8 member 6 member 6 member 6 member 6 member 6 member 6 member 6 member 6 member 6 member 7 member 7 member 7 member 7 member 7 member 7 member 7 member 8 member 6 member 6 member 8 member 6 me						
metalsoproteinase 3, lassue   Inhibitor of metalsoproteinase   Sasue   Inhibitor of metalsoproteinase   Sasue   Inhibitor of metalsoproteinase   Sasue   Inhibitor of metalsoproteinase   Sasue   Inhibitor of metalsoproteinase   Sasue   Inhibitor of metalsoproteinase   Sasue   Inhibitor of metalsoproteinase   Sasue   Inhibitor of metalsoproteinase   Sasue   Inhibitor of metalsoproteinase   Sasue   Inhibitor of metalsoproteinase   Sasue   Inhibitor of metalsoproteinase   Sasue   Inhibitor of metalsoproteinase   Inhibitor of					·	transporter), member 1, solute carrier family 20 (phosphate transporter), member 2, solute carrier family 20, member 1, solute carrier family 20,
885 6796 A1102753 General 886 8837 A102849 o.p 887 15881 A102849 o.p 887 15881 A102868 II 888 3533 A102877 General 888 1533 A102877 O. 888 1532 A1				c	metalloproteinase 3, tissue inhibitor of metalloproteinase 3 (Sorsby fundus dystrophy,	
886 887 A 190249 O.p. 887 18981 A 102249 I.p. 888 357 18981 A 102287 I.p. 888 3533 A 102277 I.p. 889 19322 A 102277 I.p. 889 19322 A 102277 I.p. 889 1932 A 102277 I.p. 889 1953 A 102277 I.p. 889 1953 A 102277 I.p. 889 1 10059 A 102077 I.p. 889 1 10059 A 102078 I.p. 889 1 10059 A 102078 I.p. 889 1 10059 I.p. 889 I.p. 889 1 10059 I.p. 889 1 10059 I.p. 889 I.p. 8						
887 15861 A1020268 I phosphoserine aminotransfersse 88 3533 A102027 General 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9						
888 3533 A1/02877 Q 859 15222 A1/02977 Q 8606 B59 11522 A1/02977 General 891 10659 A1/03016 Out 891 10659 A1/03016 Out 891 10659 A1/03016 Out 891 A1/03016 A1/03016 Out 891 A1/03016 A1/03016 Out 891 A1/03016 A1/03016 A1/03016 A1/03016 A1/03016 A1/03016 A1/03016 A1/03016 A1/03016 A1/03016 A1/03016 C 892 A1/040 A1/03017 e 983 3584 A1/03016 X.a.a				o,p		
889 13222 A103277 General 600 8000 A103016 Ou 891 10059 A103016 W.cc.General 892 A103016 W.cc.General ATP synthase, H+ transporting, Initial synthase, Initial synthase, Initial synthase, Initial synthase, Initial synthase, Initial synthase, Initial synthase, Initial synthase, Initial synthase, Initial synthase, Initial synthase,						priospriosenne aminotransterase
100   100						
10559   Alt03059   W.cc.General   ATP synthase, H+ transporting, mitochondrial F0 complax, suburn, incohondrial F0 complax, suburn to ATPK, HUMAN ATP SYNTHASE F CHAIN, MITOCHONDRIAL (H. taspiene), ESTs, Highly similar to ATPK, HUMAN ATP SYNTHASE F CHAIN, MITOCHONDRIAL (H. taspiene), ESTs, Highly similar to ATPK, HUMAN ATP SYNTHASE F CHAIN, MITOCHONDRIAL (H. taspiene), ESTS, HIGHLY SYNTHASE F CHAIN, MITOCHONDRIAL (H. tasp						
ATP synthase, H+ transporting, mindondrafid F0 complax, subunal f, indoctor (2.6T, Vessel) and (2.6T, Vessel						
893 3584 Al103106 x,aa				w,cc,general		mitochondrial F0 complex, subunit f, isoform 2, EST, Weakly similar to ATPK_HUMAN ATP SYNTHASE F CHAIN, MITOCHONDRIAL [H.saplens], ESTs, Highly similar to ATPK_HUMAN ATP SYNTHASE F
				e :		CHAIN, MITOCHONDRIAL [H.sapiens]
				x,aa .		

				-233-							
DABLE:		HOMOROGUE A		the second	# Ally Dockas No. 4/1974-5038V/ Doc No. 17793877						
Sog.4D No.	lcionflifter	GenBank Aced Roll Son, Ito No.	Modal@odb	Mamalagaus Guno et Nama							
895	15981	Ai103150	Ji,x		ESTS, Highly similar to S1736 hypothetical profein Exaperia, ESTS Highly similar to USIGUTINA. Profein Exaperia, ESTS Highly similar to USIGUTINA. PROPRIES AND AND AND AND AND AND AND AND AND AND						
896	3475	Al103245	lw	<del> </del>	sorting oraşını EEG E						
898	23619	Al103314	IP.								
899	24181	Al103320	8								
901	4355	Al103410	General	1							
902	7622	AI103472	General								
903	20918	AI103552	in								
904	21579	AI103572	General	1							
905	2222	AJ103631	0								
906	2752	AI103641	0								
907	4856	AI103708	i								
908	8990	Al103719	I,m,y,z	1							
909	15942	AI103738	r								
910	22885	AI103828	e,General								
911	15853	Al103841	×	(within H-2S), complement component 4B	EST, Weakly similar to complement component C4A [H.sapiens]						
912	15050	AJ103911	ly.		EST. Moderately similar to UCRI RAT UBIOUNDIA. CTOCHROME C REDUCTASE IRON-SULPUR SUBURIT, MITOCHROME C REDUCTASE IRON-SULPUR SUBURIT, MITOCHROME (EST, WASS) smilar to UCRI HUMAN REDUCTASE IRON-SULPUR SUBURIT, MITOCHROME C REDUCTASE IRON-SULPUR SUBURIT, SUBURIT,	913		Al103911	U.Y		outer polypopulus I

		Hovorogrey		William Inches	Aug. Docket No. 44921-5039V Doc. No. 1793397
399, ID No	terminer	Ron Barth Accul Roll Scop ID No.	Model Gode	Hamalogous Cono Nume	Monicologicus Gluster Marrie
915 916	20833	Al104035 Al104099	(f.q		ESTs, Wealty similar to COXC MOUSE CYCORROME C OXIDAS POLYPEPTIDE VIB IM musculus, Human DNA sequence from clore RP4-591N18 on chromosome 22q13 13.2 Contains a COX88 (Cytochrom C Oxidase subumit Vib (EC 19.3.1)) pseudogene, ESTs, GSSs and two putative Cop Estands, RIKEN cDNA 2010000005 gene, cytochrome c coidses subumit Vib
917	22101	Al104251	General	4	DKFZP564O243 protein
918	22833	Al104258	General		DKFZF364O243 protein
919 920	22211 10720	Al104279 Al104296	g,m		EST. Weakly similar to IF6, HUMAN EUKARYOTIC TRANSLATION INITIATION FACTOR 6 [H.sapiens], Mus musculus 10 days neonate cerebellum CDNA, RIKCN full-length enriched library, clone:3530402L05, full linsert sequence, integrin beta 4 binding protein
921	15416	AI104340	i		
922 -	10991	Al104342	a		1
923 924	18831 7223	Al104357 Al104373	p.		ESTs, Weakly similer to A29661 acin gamma [Haspienc], ESTs, Weakly similer to 139393 alpha-acid similer to 139393 alpha-acid (Haspienc), ESTs, Weakly similer to S39782 acin beter chein [Haspiens], Hemos appiens miRNV, cDNA DKP2549622115, McKH cDNA DKP2549622115, McKH cDNA DKP2549622115, McKH cDNA 1700561.200 approximation of the con- pressed sequence A1223024, expressed sequence A1223024, e
				cytochrome c oxidase	
	23574	Al104520	e,g,s	subunit VIa polypeptide 1, cytochrome c oxidase, subunit VI a, polypeptide 1	NADH dehydrogenase (ubiquinone) 1
	18509	Al104528	qp		beta subcomplex, 6 (17kD, B17)
			Y		ESTs, Weskly similar to RENAL TRANSCRIPTION FACTOR KID-1 (R. ROYSE) (R. S. Weskly smills to 17-8262 hypothetical protein to 17-8262 hypothetical protein to 17-8262 hypothetical protein (AMCE-45-9466), in RMD-2 compress (AMCE-45-9466), in RMD-2
			w		ZIp91 in mouse
29	23689	AI104685	r		
	15377		o,cc General		hypothetical protein MGC 10947, leucine rich repeat (in FLII) interacting protein 2

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				-235-			
TABLE	ST HUMA	N HOMOTOGUE/	ENODEATONIA		Ally, Godkol No. 43924-31890 Doc. No. 179339		
909, (D	ldentifie	PonBenk Acci Ref. Seq. 10 No	Marial Goda	Homologous Gano Namo			
932	18451	Al104953	o,s		ATP synthase, H+ transporting, mitochondrial F1 complex, della subunit, EST, Moderately similar to ATPD, HUMAN ATP SYNTHASE DELTA CHAIN, MITOCHONDRIAL PRECURSO IH sapiens, RIKEN CDMA 0610008F14 gene, expressed sequence A4960090, expressed sequence A4960090, expressed sequence A4976056, expressed sequence A597656, expressed sequence C35518		
933	24375	AI104979	n,General		3-oxoacid CoA transferase.		
934	18278	AI 105080	bb	1	hypothetical protein FKSG25		
935	2196	Al105243	9				
936	5199	Al105272	bb,General				
937 938	12901	AI105301	io.s		1		
938	7700	AI105383	cc,General	ļ	<del></del>		
939	13343	AI105398	U	<del> </del>	DNA segment, human D4S114, P31		
940	22931	AI105417	e,General		protein expressed sequence D17825, glutar		
941	23596	AI105435	bb	1	Coenzyme A dehydrogenase		
942	15893	Al105465			ESTs, Highly similar to DHSD_HUM, SUCCINATE DEHYDROGENASE (H.sapiens), ESTs, Moderately similar to DHSD_HUMAN SUCCINATE DEHYDROGENASE (H.sapiens), succinate dehydrogenase complex, subunit D, integral membrane protein		
943	12660	AI111492	lc	1			
944	4479	AI111599	General				
945 946	24211 12539	Al111853	k		EST, Moderately similar to 07/10252/ histone H3 H.sapiensi, ESTs. Highly similar to H33, HUMAN HISTONE H3.3 [H.sapiens], ESTs, Weakly similar to H33, HUMAN HISTONE H3.3 [H.sapiens], ESTs, Weakly similar to J01983 H3.3 like histone MH921 - mouse (M.musculus), H3 histone, family 3A, H3 histone, family 3B, H3 histone, family 3B (H3.3B)		
	-	-					
					- GGF-containing flouri-like extracelul matter protein 1, GGF-containing flouri-like extracelular matter protein 1, GGF-containing flouring interest 2, GGF-containing flouring interest 2, GGF-containing flourin		
947	5729	AI111990	k		fibulin-like extracellular matrix protein 1, epidermal growth factor-containing fibulin-like extracellular matrix protein		

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TABLE	OF CHUMAN	HOMOLOGUEA	ENDIVATIONS		Afty, Doctot No. 44921- Doc No. 17
මකු. (D රථා	[clemition	Gorbert: Acc./ Ref. Sep. 10 No.	Montal Garda	Komologova Gana Nama	· Litano logous Glusia: Man
948 949	4049 12908	Al112012 Al112043	i,q,u,Generat		EST, Moderately similar to PM MOUSE MELANOCYTE PROI PMEL 17 PRECURSOR [M.m. Homo sapiens, Similar to glyco (transmembrane) mmb, clone MGC:1696 IMAGE:3345861, n complete cds, glycoprotein (transmembrane) nmb, silver
950	20041	Al112161	i	<del> </del>	
951	12937	Al112462	General		
952	3713	Al112571	Ь		1
953	12921	Al112636	General		Homo sapiens BAC clone RP1 335J18 from 2, RIKEN cDNA 1700124F02 gene, expressed sequence Al325217, undine phosphorylase
954 955	12965 7499	Al112926	General	1	1
955 956	17499 4969	Al112986 Al113008	General		
JJ0	17303	10113000 1	<del> </del>	+	<b> </b>
957	11817	AI136295	f		DKFZP564O123 protein, putati breast adenocarcinoma marker
959 960	11165	Al136372 Al136460	С		
961	12782	AI136460 AI136493	cc k		
962	6850	Al136665	h		ectonucleoside triphosphate diphosphotydrolase 1, ectonuc triphosphate diphosphotydrolas ectonucleoside triphosphate diphosphotydrolase 3, ectonuc triphosphate diphosphohydrolas (putative function)
963 964	20920	Al136891 ,	p,v o	butyrate response factor 1, zinc finger protein, C3H type, 36-like 1	ESTs, Moderately similar to TIS TIS 118 PROTEIN [R.noregicu ESTs, Weakly similar to TISB R TIS 118 PROTEIN [R.noregicu bulyrate response factor 1, buly response factor 1 (EGF-response factor 1), bulyrate response factor tobulyrate response factor 2 (EGF response factor 2), expressed sequence AW742437 6.2 kg projekt
965		Al137211	ř		d.z ku piotesi
966	13111		o.General		hypothetical protein FLJ20260, oxysterol binding protein 2
					DNA segment, Chr 17, ERATO I 197, expressed, EST, Weakly si to E737, RAZ 110F FINGER PR 37 (ZFF-37) [R, norvegicus], ES' Weakly similar to 18800 zer. En protein ZAF 155 [H, sepiena], ES PROTEIN ZFP-29 [M. muterolar] Homo sapiens GIOT-1 mRNA fo gonadotropin induble transcrip- repressor-1, partial cds, express sequence Al44932, hypothetic protein E1J4855, zinc finger pri 135 (close plx-17), sinc finger pr
67	15969	Al137302	,		29, zinc finger protein 37, zinc fir protein homologous to Zfp37 in r

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TEABLE	≣ 8E IHUMAN	HOMOLOGUEA	BRIGHTATIONS		Ally, Dockel No. 44927-50 Oos. No. 1799	
Seq II. Xo	o). It contiller	Confant Acel Ref. Seg. ID No.	Model Gode	Hemologous Gaue Name		
000					protein C receptor, endothelial, o	
970	9166	A1137516	General		Greeptor, endohelate (EPCR)  EST, Weakly smiles to 273.7 gaz  ZIMC FINGER PROTEIN 37 CZFI  R. novegoigi. SETI, Weakly so  DE 2001gi. SETI, Weakly so  DE 2001gi. SETI, Weakly so  DE 2001gi. SETI, Weakly so  DE 2001gi. SETI, Weakly so  DE 2001gi. SETI, SWEAKLY ST  MLZ4 MOUSE ZIMC FINGER  PROTEIN MLZ-4 (IM.muscuks), I sapiens CDMA EL14967 is, COTTIN TO 1000.242, moderately sim  ZMC FINGER PROTEIN 84.  ZMC FINGER PROTEIN 84.  SETI SETI SETI SETI SETI SETI SETI SETI	
971	6838	AI137516 AI137579	General	<del> </del>	homologous to Zfp37 in mouse	
972	7414	Al137586	General		EST, Weakly similar to IMB3_HU IMPORTIN BETA-3 SUBUNIT [H.sapiens], Homo sapiens cDNA FLU12978 ils, clone NT2RP2008: RAN binding protein 6, karyopher (Importin) beta 3 EST, Highly similar to R5HU7	
973	11321	Al137752	z		ribosomal protein L7, cytosolic (H.sapiens), EST, Weakly similar R1,7 MOUSE 60S RIBOSOMAL PROTEIN L7 [M.musculus], ESTS Highly similar to R5HU7 ribosoma protein L7, cytosolic (H.sapiens), calponin like transmembrane dom protein, ribosomal protein L7	
974 975	23473 13158	Al137932	!			
		Al138024	-	1	UDP-glucose ceramide	
976 977	13467	AI138034 AI138105	cc v		glucosyltransferase	
978	6790	Al144801	d,h			
979	6506	Al144919 .	j.l.y			
980	8027	AI144958	i			
982 983	14458	Al145095	General			
983 984	7476 17545	Al145202 Al145384	9			
985	17479	Al145385	r	1	1	
986	4194	Al145387	r	1	1	
987		AI145722	9			
988	8339	AI145761	y,General			
989	2059	AI146005	h.General	1	RIKEN cDNA 2610020J05 gene, pseudoundine synthese 1,	
505	2009	A1146005	ir, General		pseudoundylate synthase 1 translocase of inner mitochondrial membrane 10 homolog (yeast),	
990	23224	AI146033 ,	•	]	translocase of inner mitochondrial membrane 9 (yeast) homolog	
991			bb	branched chain keto acid dehydrogenase E1, beta polypeptide (maple syrup urine disease), branched chain ketoacid dehydrogenase E1, beta polypeptide		
992		Al168975	u			
992	18473		U	1	1	
993	113235	AI169020				

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(4) (A) (A)	AL STATE	HOMOLOGUEA	BRIGHTATIONS		Ally, Dookni No. 44921-50390 Doo, No. 1775339
No.	lemilifær	ConDonk Ace./ Rof. Sog. 10 No.	Model Gode	Hemolegeus Gana Nama	Homologous Glusior Namo
995	17386	AI169144	lo		
996	10984	Al169156	lo,u		
997	8205	Al169176	e	1	
998	12979	AI169177	e	1	immediate early response 3
999	2607	Al169211	c		Homo sapiens clone 24468 mRNA sequence, Mus musculus o day neonate skin cDNA, RIKEN full-lengt enriched library, clone-4633401122, fi insert sequence, heterogeneous nuclear ribonucleoprotein C, heterogeneous nuclear ribonucleoprotein C (C1/C2), hnRNP- associated with lethal yellow
1000	22661	Al169265	<b>S.</b> Z		ATPase, H- transporting, lysosomel (vecucial prior pump), subunit 1: EST, Waskly similar to 154197 inhypothetical prioring H-spainel, EST, Waskly similar to 1745. FART Waskly similar to 1745. FART Waskly similar to 1745. FART Waskly similar to 1745. FART Waskly similar to 1745. FART Waskly similar to 1745. FART Waskly similar to 1745. FART Waskly similar to 1745. FART WASKLY WA
1001	13239	Al169278	g.j.l.y.z		
1002	24162	Al169279	m		
1003	16879	Al169284	0		ADP-ribosylation factor-like 6 Interacting protein
1004		Al169289 Al169311	p cc		EST, Moderately similar to 07102526. histone H3 (H.sapiens), ESTs, Highly similer to H33, HUMAN HISTONE H3.5, H.sapiens), ESTs, Weekly similar to H33, HUMAN HISTONE H3.5, H.sapiens), ESTs, Weakly similar to H328 H3.3, ilke histone MH921 - mouse [M.musculus], H3 histone, family 3A, H3 histone, femily 38, H3 histone, family 3B, (H3.38)
1006					
1006		Al169324	Ь		
1007		AI169337 AI169365	d		hypothetical protein
1009		A1169365	cc		EST, Weakly similar to S13101 cytochrome P450 c117 - rat [R-norvegicus], RIKEN cDNA 2010301M18 gene, RIKEN cDNA 2010301M18 gene, RIKEN cDNA 2210009K14 gene, cytochrome P450, 2029, cytochrome P450, widdranily IIC (mephenytoin 4-hydroxylase), polypeolide 19

20.2	1	HOMOLOGUEA	SKONATOKK	17. 4. 人。 4. 4. 4.	Ally, Dockej No. 44924-5990 Doc. No. 179391
Seq. ID	12-160-2	GerBent: Acc./ Ref. Geg. (D No.	2240-2	Hamologous Gano Namo	1402-1400-1
Degrada de		39.500,1910		jednig	Homologous(e)tisten(Namo  ATPase, H+ transporting, lysosomal (vacuolar proton pump), 42 kDa, ATPase, H+ transporting, lysosomal (vacuolar proton pump), member D, ESTS, Moderately similar to VA0D_HUMAN VACUOLAR ATP SYNTHASE SUBUNIT D (V-ATPASI
1010	20697	Al169494	0.4		D SUBUNIT) (VACUOLAR PROTON PUMP D SUBUNIT) (V-ATPASE AC SUBUNIT) (V-ATPASE 40 KDA ACCESSORY PROTEIN) (P39) [H.sapiens]
1011	8234	AI169517	z.	<del></del>	nn.sapiensj
1012	18343	AI169648	0	1	
1013	10839	AI169655	l.m	-	
1014	24146	Al169668	į,i		ATP-binding cassette, sub-family F (GCN20), member 1, ATP-binding cassette, sub-family F (GCN20), member 2, hypothetical protein FLJ11198
1015	22575	Al169728	r		EST, Highly similar to T47184 hypothetical protein DKFZp434F1528.1 [H.sapiens], EST Weakly similar to T47184 hypothetical protein DKFZp434F1526.1 [H.sapiens], hypothetical protein FLJ10889
1016	804	AI169756	cc		Gene 33/Mig-6, RIKEN cDNA 1300002F13 gene
1017	8213	Al169883	D	ferritin light chain 1, ferritin, light polypeptide	ESTs, Highly similar to FRHUL ferritir light chain [H.sapiens], ESTs, Moderately similar to FRHUL ferritin light chain [H.sapiens], PRO0470 protein, RIKEN cDNA 4933416E14 gene, ferritin light chain 2, ferritin, ligh potypeotide
	3916	Al169947	i,bb		
		AI170053	u,General		
		AI170224	CC	1	
1021	11406	Al170263	r		Interleukin 20 receptor, aipha ESTs, Weakly similar to ZNT4_HUMAN ZINC TRANSPORTE! 4 [H.sapiens], RIKEN cDNA 1810059J10 gene, hypothetical prote DKFZP547M236, hypothetical protein FLJ12496, solute carrier family 30
1022	3547	Al170279	General		(zinc transporter), member 1, solute carrier family 30 (zinc transporter), member 4 PDZ and LIM domain 1 (elfin), PDZ
1023	11524	A1170340			and LIM domain 3, PDZ-LIM protein myslique, RIKEN cDNA 1110003801 gene, Rattus norvegicus LIM-domain protein LMP-1 mRNA, complete cds, band alternatively spliced PDZ-motif, actinin alpha 2 associated LIM protein alpha-actinin-2-associated LIM protein
			j.y.z e.i		reversion induced LIM gene
			e,ı		
			h		
			a,g		CGI-10 protein

100		HOMOLOGUEA	EMOTRATIONS	18 5 1 19	Atty. (2008) No. (4192) - 5089) Drs. No. (7798)
Seq. ID No.	Identifior	Confirma Accul Ref. Cop. ID No.	Zjodal@ode	Homologous Gene Name	Nomelogius Guster Name
1028	5968	Al170692	y,aa		GABA(A) receptor-associated prote tike 2, RIKEN cDNA 0610012F20 gene, gamma-aminobutyric acid (GABA(A)) receptor-associated pro- like 1, ganglioside expression fector
1029	9757	Al170693	b	J	
1030	18905	Al170770 Al170894	e,s		RIKEN cDNA 1300012C15 gene, RIKEN cDNA 2310076L09 gene, adipose differentiation related prote adipose differentiation-related prote
1032	708g	Al171185 Al171354	c 3b	hyaluronan mediated motility receptor (RHAMM), hyaluronan-mediated motility receptor (RHAMM)	Mus musculus 12 days embryo mal wolffien duct includes surrounding region cDNA, RIKEN full-length enriched library, clone;6720466F44 full insert sequence, RIKEN cDNA 0810027D24 gene, TRAF4 associat factor 1, hyaluronan mediated motili receptor (RHAMM), hyaluronan- mediated motility receptor (RHAMM)
1033	17591	A11/1354	D	ļ	heterogeneous nuclear
1034 1	13285	Al171361	h	1	ribonucleoprotein A0
1035	4428 18126	AI171362 AI171369	a w		EST, Moderately similar to NUAM_HUMAN NADH-UBIQUINON OXIDOREDUCTASE 75 KD SUBUN PRECURSOR [H. sapiens], NADH dehydrogenese (ubiquinone) Fe-S protein 1 (75KD) (NADH-coenzyme i reductase)
1037	23253	A)171448			RIKEN cDNA 2010107E04 gene, chromosome 14 open reading frame expressed sequence AU043134, expressed sequence AV124504
1038	4584	AI171492	m.General		expressed sequence AV124504
1039	11 158 15345	Al171542 Al171587	r,s		EST, Moderately similar to NI2M_HUMAN NADH-UBIQUINONE OXIDOREDUCTASE B22 SUBUNIT (H.saplens), NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 9 (22kD, B22)
1041	21183	Al171676	1:	<del></del>	
		A1171692		ferritin light chain 1, ferritin,	ESTs, Highly similar to FRHUL femit light chain [H.sapiens]. ESTs, Moderately similar to FRHUL femitin light chain [H.sapiens]. PROO470 protein, RIKEN CDNA 201009K05 gene, RIKEN CDNA 401009K05 gene, cysteine conjugate-betal yasecytoplasmic (glutamine transeminast K, kyneurenine aminotransferase). K, tyreurenine aminotransferase).
	9245		l'	light polypeptide	polypeptide, hypothetical protein 669
	8215				
1042 1043	11437	Al171794	i cc		
043 044	11437 2625	Al171794 Al171800	cc		
043 044 045 -	11437 2625 23579	Al171794 Al171800 Al171802	v		
043 044 045 -	11437 2625	Al171794 Al171800			ATP synthase, H+ transporting, mitochondrial F1 complex, epsilon subunit, RIKEN cDNA 2410043G19 gene, expressed sequence AV0006

k kuma	HOMOPOGAE VI	BKOLTATOKI		Alty. Doctol No. 44924 -5189 v Doc. No. 1934
410	GenBank Acel		Momologovs Carra	<b>15.</b> 25.
		Model Gode	Матто	humany e Gluster Namo
				DKFZP564F0522 protein, ESTs, Weakly similar to T08675 hypothetic
		I,m		protein DKFZp564F0522.1 [H.sapier
	AI172056	lt		
	AI172057			
			1	
19128	Al172103	m	4	
15673	Al172107	z		KIAA1883 protein, sirtuin (silent mati type information regulation 2, S.cerevisiae, homolog) 2, sirtuin 2 (silent mating type information regulation 2, homolog) 2 (S. cerevisiae)
6630	AI172184	n	1	
		bb		Alpha-fetoprotein, ESTs, Weakly similar to ALPHA-FETOPROTEIN PRECURSOR [M.musculus], ESTs, Weakly similar to FPHU alpha-fetoprotein precursor [H.sapiens], alpha fetoprotein, alpha-fetoprotein
			<del>                                     </del>	I Coproton, apra-capitolist
2140	Al172272	General		ESTs, Highly similar to JC4577 transcription elongation factor T1 [H.sapiens], expressed sequence Al326274, transcription elongetion factor A (SII), 2
15382	AI172302	I.p.General		
18689	Al172329	1		
17887	Al172414	0		
3042	Al172447	General		ESTs. Highly similar to BCL3.  (Mussculus), ESTs. Weakly similar I: Happe B alpha chain [Mussculus], inyophotical proles in McC15396, mobilar factor of laspe light chain gene enhancer in Gestla simbliot, or mobilar factor of laspe light chain gene enhancer in Gestla mibility, object, souther factor of laspe light polypepide gene enhancer in Gestla simbliotin, object, muscler factor of laspe light polypepide gene enhancer in Gestla simbliotin, object, such such such such such such such such
				ESTs, Highly similar to ISOCITRATE DEHYDROGENASE [R.norvegicus], socitrate dehydrogenase 1, soluble, isocitrate dehydrogenase 1 (NADP+), soluble, isocitrate dehydrogenase 2
				(NADP+), mitochondrial
		p		
8795	Al172618	General		
				BACULOVIRAL IAP REPEAT- CONTAINING PROTEIN 6 (UBIQUITIN-CONJUGATING BIR- DOMAIN ENZYME APOLLON) (H.sapiens). ESTS, Moderately similar to T31087 BIR repeat containing ubiquitin-conjugating enzyme BRUCE mouse (M.musculus), baculoviral IAP repeat-containing 6, hypothetical protein FLJ13855, likely ortholog of
	3060 1000 1000 1000 1000 1000 1000 1000	Stribans Assal	Redulfilar   Red. Scig. 10 No.   Model Golds   Martines   Martin	SonBarts/Assa

		XHONOTOGUEA		prij reg	Ally, Pookol No. 44924-5039 Dog. No. 17993
300 (D) Xo:	.com/f/s	GenBertk Ace./ r Reft Seq. (10 No.	Model Gods	Memologous Gene Xone	Cityster Name
	4445				EST, Highly similar to RASN RAT TRANSFORMING PROTEIN P217 RAS [R norvegicus], EST, Weakly similar to TVHURR transforming protein R-ras [H. sapiens], Harvey, sarcoma nocegene, subgroup, RIKEM CDNA 2810016F24 gene, RIKEN CDNA 28100528B11 gene, E expressed sequence AIST9426, neuroblastoma RAS viral (v-ras) oncogene homolog, neuroblastoma oncogene, related RAS viral (v-ras) oncogene, related RAS viral (v-ras) oncogene, related RAS viral (v-ras) oncogene, related RAS viral (v-ras)
1070	3418	Al175466	m		Ras, dexamethasone-induced 1 ESTs, Weakly similar to NIPX RA' NHP2/RS6 FAMILY PROTEIN YELOZBY HOMOLOG [R. norvepic RIKEN CDNA 241030M07 gene, n histone chromosome protein 2 (S. corevisiae)-like 1, nucleolar protein family A, member 2 (H/ACA small nucleolar RNPs), sperm specific antigen 1
					ESTs, Highly similar to S25432 translation elongation factor eEF-1 beta chain [H.sapiens], eukaryotic
1072	18507	AI175551	bb		translation elongation factor 1 beta
1073	10217	Al 175628	w		
1074	7262	AI175833	j,m,x	1	
1075	19004	AI175875	r		
1076 1077	7022	AI175959 AI176041	i,General		
1078	21467	Al176061	ı		EST, Moderately similar to TIG2_HUMAN RETINOIC ACID RECEPTOR RESPONDER PROTE 2 PRECURSOR (H.sapiens), retinoi acid receptor responder (tazaroteno induced) 2
1079	18581	AI176160	General		
1080	14159	AI176169	9	1	
1081	21742	AI176172	w		
1082	10182	AI176185	v General	FBJ osteosarcoma oncogene, v-fos FBJ murine osteosarcoma viral oncogene homolog	
1000	125,00	DI 170203	Oblibiai		EST, Moderately similar to T02747
	1			1	
1084	6905	A1176275			phospholipid-hydroperoxide glutathine peroxidase IH sapiensI, EST, Wasky similar to 172747 phospholipid-hydroperoxide glutathine peroxidase IH sapiensI, ESTS, Wasky similar to GSHH RAT PHOSPHOLIPID HYDROPEROXID GUITATHIONE PEROXIDASE (RUTATHIONE PEROXIDASE REDX283 mRNK), complete cSt, RIKEN CONA 2310016C16 gene, RIKEN CONA 2310016C16 gene, glutathine peroxidase 4, glutathine peroxidase 4 (phospholipid
1084	6905	A1176275	a		phospholipic-hydroperoxide glutathione peroxidase [H. sapiens], EST, Weakly similar to T02747 phospholipic-hydroperoxide glutathione peroxidase [H. sapiens], ESTS, Weakly similar to SSHH RAT PHOSPHOLIPID HYDROPEROXID GUITATHIONE PEROXIDASE GUITATHIONE STROME PEROXIDASE RICHARD STROME PEROXIDASE RICHARD STROME PEROXIDASE RICHARD STROME STROME RICHARD STROME RICHARD STROME RICHARD STROME ST

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TABLE 8	e thuman	HOMOLOGUEA	SKOTATIONS	804CE 1115	Atty, Docket No. 44924-50 Doc No. 179	
Seg. ID. No.	ldentiffer	GenBenk Agoul Ref. Seg. 1040o	Madu Oade	Montpologous Garre, Manus	lomolborous Gluster Namo	
1086	16438	Al176294			ESTs, Weakly similar to B Chair Crystal Structure Of The D1d2 S Complex From The Human Snrr Core Domain [H.sapiens], small nuclear ribonucleoprotein D2 polypeptide (16.5kD)	
1087	21130	Al176298	v	1		
1088	3014	Al176362	e	1		
1089	15015	Al176363	r			
1090	19006	Al176393	x	1	<del></del>	
1091	20001	Al176396	lo o		ESTs, Highly similar to C560_HI SUCCINATE DEHYDROGENAS CYTOCHROME B560 SUBUNIT MITOCHONDRIAL PRECURSOI [H.sapiens], succinate dehydrog complex, subunit C, integral membrane protein, 15kD	
1092	12174	AI176435	jj,m	1		
1093	15191	Al176456	b,o,t,v,cc		ESTs, Moderately similar to AF0 1 hqp0376 protein [H.sapiens], expressed sequence AA409533	
1094	24236	AI176473	d,General		ESTs, Highly similar to HS9B RA	
1095 1096	16518 2161	AJ176546 AJ176592	v General		BETA [R.norvegicus], Mus musc clone IMAGE:3584589, mRNA, p cds, expressed sequence C8143 heat shock 90kD protein 1, beta, shock protein, 84 kDa 1, heat sh protein, 86 kDa 1	
					ESTs, Weakly similar to SYC_HL CYSTEINYL-TRNA SYNTHETAS [H.sapiens], cysteinyl-tRNA synthetase, hypothetical protein	
1097 ~	12438	Al176610	General		FLJ12118	
	2536	Al176616	I,v,General			
1099	18525	Al176792	U			
1100	23449	Al176828	9			
	23299	AI176839	General			
	3580	Al176848	0			
	22103	Al176849	d,General			
		Al176855	f			
		Al176916	General		phosphomannomutase 1	
		Al176951	t.		with Glu/Asp-rich carboxy-termini domain, 2, Cbp/p300-interacting transactivator, with Glu/Asp-rich carboxy-terminal domain, 4, EST3 Weakly similar to MRG1, HUMAN MSG-RELATED PROTEIN 1 (H.saplens), expressed sequence	
	16124	AI176963	cc		AW742964	
			b.General			
			f			
			C			
1112	3156	AI177092	g			
					IEST, Moderately similar to APT F ADENINE PHOSPHORIBOSYLTRANSFER, [R.norvegicus], Mouse adenine phosphoribosyltransferase (APRT complete cds, adenine phosphori transferase, adenine	
					phosphoribosyltransferase, expre-	

	100	HOMOLOGUEA	NNOTATIONS.	N. ISA	Any Docket No. 44921-5980 Pos. No. 179889
399, ID Vo.	Mentifier	GenBank Ace./ Ref. Sog. (D No.	Modal@do	Hemotogous Gene Name	
1114	13310	A/177119	General		ESTs., Weakly similar to COMPLEMENT C10 SUBCOMPONENT, C: CHAIN PRECURSOR (IM museublas), Homo saplens, Similar to complement component 1, q subcomponent, c polypeptide, clone MGC: 17279 IMAGE: 421272, mRNA, complete -cds, complement component 1, a subcomponent, bela polypeptide, subcomponent, c
1115	24049	AI177341	g,p,s,u		CGI-10 protein
1116	15964	Al177366	Jo,General		iESTs, Highty similar to B27079 fibronactin receptor bata chain precursor (14 sapiens), integrin beta (fibronectin receptor beta), integrin beta 2, integrin, beta 1 (fibronectin receptor, beta polyeputie, antigen CD29 includes MDF2, MSK12), integrin, beta 2 (antigen CD18 (ps5) lymphocyte function-essociated antigen 1; marcophage entigen 1 (m
1118	7975	AI177374	aa		1) beta subunit)
1119	3006	A1177395	k		clicktop (Xenopus Isawis) homological clicktop (Xenopus Isawis) homological clicktop (Xenopus Isawis) homological clicktop (Xenopus Isawis) homological clicktop (Xenopus Isawis) homological clicktop (Xenopus Isawis) homological clicktop (Xenopus Isawis) homological clicktop (Xenopus Isawis) homological clicktop (Xenopus Isawis) homological clicktop (Xenopus Isawis) homological clicktop (Xenopus Isawis) homological clicktop (Xenopus Isawis) homological clicktop (Xenopus Isawis) homological clicktop (Xenopus Isawis) homological clicktop (Xenopus Isawis) homological clicktop (Xenopus Isawis) homological (Xenopus Isawis)
	17570	AI177683	r		hypothetical protein 23851
121	9521	AI177706	b		1
			g,General		ESTs, Moderately similar to PBEF_HUMAN PRE-B CELL ENHANCING FACTOR PRECURSO [H.sapiens], pre-B-cell colony- onhancing factor
123			j,m		
123 124	5356	AI177813	j,m cc General		modulator recognition factor I sarcoma amplified sequence

ABLE	OF HOWAY	HOMOLOGUEA	THOTATIONS		Atty, Docket No. 4/92/14/03/91 Doc. No. 179889
10.	Y fartifier	Graffank Assul Ref. Sag-ID No.	Model Gode	Montelogous Gene Name	Mamologous Cluster Namo
					EH-domain containing 3, EH-domain containing 4, ESTs, Highly similar to EP15 MOUSE EPIDERMAL GROW FACTOR RECEPTOR SUBSTRATE
					SUBSTRATE 15 [M.musculus], Hon sapiens cDNA FLJ13682 fis, clone PLACE2000015, weakly similar to
					EPIDERMAL GROWTH FACTOR RECEPTOR SUBSTRATE SUBSTRATE 15, Mus musculus ad
					male cecum cDNA, RIKEN full-lengt enriched library, clone:9130014G17 full insert sequence, epidermal grow
26	14484	A)177867	General		factor receptor pathway substrate 1 epidermal growth factor receptor substrate EPS15R
26	14464	A11//00/	General		EST, Weakly similar to TESTIN 2 [M.musculus], LIM and cysteine-ricl
					domains 1, four and e half LIM domains 2, lestis derived transcript, testis derived transcript (3 LIM domains), vascular Rab-GAP/TBC-
127	5780	AI177869	General		containing
					ESTs, Weakly similar to TGIF MOU 5*TG-3* INTERACTING FACTOR [M.musculus], Homo sapiens TGF to induced transcription factor 2-like mRNA, partial sequence, RIKEN co
128	19184	AI178025	General		5430405H02 gene, RIKEN cDNA 5730599C09 gene, TG interacting factor, TGFB-induced factor (TALE family homeobox), TGFB-induced factor 2 (TALE family homeobox)
20	19104	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Control		ESTs, Highly similar to T13963 form related protein, lymphocyte specific mouse [M.musculus], ESTs, Moderately similar to T13963 forming
		Al178245	c,General		related protein, lymphocyte specific mouse [M.musculus], Homo sapien mRNA; cDNA DKFZp762B245 (fror clone DKFZp762B245); partial cds, KIAA1902 protein, formin-like
29	6059 23248	AI178267	iv.		chromosome 1 open reading frame
31	4073	AI178272	0		
32 33	7838 18996	AI178291 AI178326	e		<del> </del>
33	110990	A1176320	,		EST, Highly similar to I49523 Moust primary response gene B94 mRNA, 3'end - mouse [M.musculus], Homo saplens, clone MGC:16332
34	22488	Al178392			Japiens, cone McC-15332 IMAGE:3842543, mRNA, complete cds, RIKEN cDNA 1600013K19 gene, similar to S. cerevisiae Sec6p and f norvegicus rsec6, tumor necrosis factor, alpha-induced protein 2
35	18800	AI178504	n,p,aa		Today opin merces
36	22197	Al178527	g.General		
					ESTs, Weakly similar to MCM3_HUMAN DNA REPLICATION LICENSING FACTOR MCM3 [H.sapiens], minichromosome
			1		
137	3401	AI178684 AI178700	bb m		maintenance deficient (S. cerevisiae

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TABLE	3: HUMAN	HOMOTOGUE <u>M</u>	TNOTAMONS	1 to 2 2 2 3	Atip. Doekot No. 4/99/1-51 Doe, No. 17/9
Sag, ID, No.	Marifity	GenBank Accd Roll Gog. ID No.	Model Gods	Hamalagaus Gare Mano	
1140	23567	Al178971	v,General		EST, Moderately similar to HAR hemoglobin alpha-1 chain - rat IR nonvegicus, EST, Weaks, EST, Wash A45964 hemoglobin alpha chair mouse (M. musculus), EST, Moderately similar to HART1 hemoglobin alpha-1 chain - rat IR nonvegicus), Hemoglobin, alpha phemoglobin alpha, adult chain 1 hemoglobin, alpha 1, hemoglobin alpha 2
1142	20991	Al178979	F	1	Table 2
1143	5887	AI179099	g,t		biotinidase, vanin 1, vanin 2, va
1144	8477	AI179167	b,e,General	1	1
1145	3348	AI179288	u,v		1
1146	13608	Al179314 Al179315	g,p	1	
1148	- 13611	A1179378	v,General		[EST, Weakly similar to MAST C PROTEASE 7 PRECURSOR [M.musculus], ESTs, Weakly sin MCT7 RAT MAST CELL PROTE PRECURSOR (R.norvegicus), R. CDM 24 1003967 is gane, Nicel CDM 24 1003967 is gane, Master CDM 24 1003967 is gane, Master CDM 24 1003967 is gane protease, serios, 8 (protatasin), tryptase della 1, tryptase, alpha (EST, Highly similar to CA13, HU COLLAGEN ALPHA 1(III) CHAI PRECURSOR (H.sapiens), EST, Weakly similar to CA25, HUMA Weakly similar to CA25, HUMA
1149	15438 13614	A1179399 A1179407	m,x e,t/General	collagen, type V, alpha 2, procollagen, type V, alpha 2	COLLAGEN ALPHA 2(V) CHAIN PRECURSO II Faspienel, EST, similar to 149607 procotiagen typ alpha 2 – mouse (Mrusuculus, F. Cobn 2810002019 gene, collag ybpe III, alpha 1 (Felher-Danios syndrome type IV, autosomal dominant), collagen, type V, alph typothetical protain IMCF29434F hypothetical protain IMCG1921, procollagen, type V, alpha 2, procollagen, type V, alpha 2, procollagen, type V, alpha 2, procollagen, type XIII, alpha 1
1151	15042	Al179422	b.General	-	
1152	2768	Al179481	i,General	<del>                                     </del>	
1153	24041		b,i		
1154	19822		o,General		
1155 1156	23270 5901		q,General e		
1157	16081		g,i,p	heme oxygenase (decycling) 1	heme oxygenase (decycling) 1
1158	14564	Al179717	k		
1159	7918	Al179750	General		
1160	9097		g o.General	hypothetical protein similar to mouse aldehyde reductase 6 (renal), renal- specific oxido-reducatse	

					Dog. No. 179339:
Seg.(D) No.	Conditor	Content Aced Rot Son, ID No.	Model Gode	Yomologous Gore- Name	Homologous Gluster Namo
1162	23989	AI179953	a		gap junction membrane channel protein beta 2, gap junction membra channel protein beta 6, gap junction protein, beta 2, 26kD (connexin 26), gap junction protein, beta 6 (connexi 30)
1163	12899	AI179967	b	1	
1164 1165	1687 22569	AI179971 AI179979	c General	hemoglobin alpha, adult chain 2, hemoglobin, alpha 1	[EST, Moderately similar to HART1 hemoglobin alpha-1 chain - rat [R.norvegicus], ESTs, Moderately similar to HART1 hemoglobin alpha- chain - rat [R.norvegicus], RiKEN CDNA 2510042H12 gene, hemoglob alpha, adult chain 1, hemoglobin, alpha 1, hemoglobin, alpha 2
1103	22505	Ini i i aara	Celieral	<del> </del>	phosphoserine phosphatase,
1166	23514	AI179986	o.General	1	phosphoserine phosphatase-like
1167	15892	AI179988	c.General	1	priospriosernie priosphatase-like
1168	12402	AI180004	ig	+	
1169	5443	A1180165	General		Drau, (Hsp40) homolog, subfamily 6, member 3, David (Hsp40) homolog, subfamily 8, member 6, ESTs, Modorately similar to HSJ.2, HUMAN DNAJ PROTEIN HOMOLOG 2 (H.sapiena), ESTS, Weakly similar to HSJ.2, HUMAN DNAJ PROTEIN HOMOLOG 2 (H.sapiena), ESTS, Weakly similar to HSJ.2, HUMAN DNAJ PROTEIN HOMOLOG 2 (H.sapiena), Homo sapiens, clone IMAGE::3930327, mRNA, parital cots, RIKEN CDNA 2810451AG6 gene, expressed sequence AUG20082
1170	5481	AI180170	General		eukaryotic translation termination factor 1
1171		AI180239	I		IGCIOI I
1172		AI180281	9	1	
1173	3701	AI180306	aa		KIAA0273 gene product, KIAA1796 protein
1174	3352	AI180334	m	1	procent
1175	24368	Al180392	l,m		ESTs, Highly similar to NBP_HUMAN NUCLEOTIDE-BINDING PROTEIN (H.sapiens), hypothetical protein FLJ12660, nucleotide binding protein (E.coli MinD like), nucleotide binding protein 2 (E.coli MinD like)
1176		Al180414 Al227647	c .		EST, Highly similer to T14106 probable GTPase-activating protein SPA-1 - ral [R.nonegicus], ESTs, Highly similar to T4106 probable GTPase-activating protein SPA-1 - ra [R.nonegicus], EAA04404 protein, RIKEN ŁONA 2610511M17 gene, expressed sequence AW212327, signal-induced profileration associate gene 1 raypothetical protein, cione 1-53, similar diructible cytokine subfamily D (Cys-Cys), member 1 (fiactalkine, provincedin), and inducible cytokine delimitation of the contraction of the
		AI227647 AI227667	j,y,z		subfamily D, 1
			aa		
1/8	22000		-		KIAA0665 gene product, KIAA1821

100	Physical Street	HOMOROGUEN	NINOTRATIONS,		-Affy, Jord Col No. 43924 -5088 
Sig. ID ; No.		SenBank Ace/ Ref. Seq. (D No.	Modal Godo 4	Momologous Gana Name	Mondingons Cluster Name
1180	24054	AI227867	General		X-linked protein, brain expressed, X linked 1, hypothetical protein *FLJ10097, nerve growth factor receptor (TNFRSF16) associated protein 1
	7324	AI227885	li .		
1182	23898	AI227987	d		
				peptidylgtycine alpha-	peptidylglycine alpha-amidating
1183	1651	AI228068	n,w	amidating monooxygenase	monooxygenase
1184	14237	Al228128	e		
1185	14242	AI228197	General		ESTs, Moderately similar to C21I_HUMAN PUTATIVE PROTEIN C21ORF18 [H.sapiens], chromosom 21 open reading frame 18
1186	16913	AI228236	0		
1187	22915	AI228299	r		1
1188	8917	AI228301	General		1
1189	15879	AI228313	r,General		
1190	13727	AI228326	o,General		1
1191	6102	AI228335	General	1	
1192	13730	A1228356	a		ubiquilin ligase Nedd4 - rat [Rnorvegicus, ESTs, Moderately similar to S70842 ubiquilin ligase Nedd4 - rat Rnorvegicus, ESTs, Weakly similar to NEDA MOUSE NEDD-4 PROTEIN [M.musculus], RIKEN CDNA 2600016C11 gene, neural procurso cell expressed, developmentally down-regulated 4, neural procurso cell expressed, developmentally down-regulated general procursor cell expressed, developmentally down-regulated general procursor cell expressed.
1193	13745	AI228494	b,cc		1.0
	4217	A1228587	s		hypothetical protein MGC4614, membrane component, chromosome 17, surface marker 2 (ovarian carcinoma antigen CA125), next to til Brca1, oxidative stress induced like, sequestosome 1
		Al228596	cc		
		AI228672	e		
197	11605	AI228682	e .		
198	13203	AI228728	(		
		Al228848	g		DEAD/H (Asp-Glu-Ala-Asp/His) box binding protein 1, Protein inhibitor of activated STAT X, protein inhibitor of activated STAT protein PIASy, protei inhibitor of activated STAT3
			7		
201	8235	Al229154	k		
				vesicle-associated membrane protein 1, vesicle-associated membrane protein 1 (synaplobrevin 1), vesicle- associated membrane protein 2, vesicle- associated membrane	Ratus norvegicus mRNA for vesicle associated membrane profein (2B), vesicle-associated membrane profein (1, vesicle-associated membrane profein (1, vesicle-associated membrane profein (2, vesicle-associated membrane profein (2, vesicle-associated membrane profein (2, vesicle-associated membrane profein) (2, vesicle-associated membrane profein) (2, vesicle-associated membrane profein) (3, vesicle-associated membrane profein) (4, vesicle-associated membrane profein) (4, vesicle-associated membrane profein) (4, vesicle-associated membrane profein) (4, vesicle-associated membrane profein) (4, vesicle-associated membrane profein) (4, vesicle-associated membrane profein) (4, vesicle-associated membrane profein) (4, vesicle-associated membrane) (4, vesicle
		AI229196	r	protein 2 (synaptobrevin 2)	(endobrevin)
203	13826	AI229304	a		
	13144	AI229320	a l		

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VABLE	a: Muliai	HOMOTOGREV	RNOTATIONS	S. 10. Santage	Any, Docket No. 4492145039 Doc. No. 17936
90g, 10 No.	11cm(Wier	GenBant: Ane./ Ref. Seq. ID No.	Model Gode	Hamologous Garo Namo	Homologous Cluster Name
1205	4640	A1229404	x,aa		
1206	23563	AI229421	,		MAP kinase-activated protein kina mitogen-ectivated protein kinase- activated protein kinase 3
1207	15426	AI229497	L		NADH dehydrogenase (ubiquinone beta subcomplex, 10 (22kD, PDSV
1208	15193	AI229508	bb		Beta subcomplex, 10 (22kb, Pbsv
					thymidine kinase 1, thymidine kina
1209	19243	AI229638	x		1, soluble
1210	23078	Al229647	P		NADH dehydrogenase (ubiquinone
					S protein 3 (30kD) (NADH-coenzy
1211	3099	AI229680	lo		Q reductase)
1212	19508	AI229698	bb		EST, Moderately similer to (38369)
1213	13977	AI229707			lubulin (H. sapiena), EST. Weaky similar in 138369 beta-tubulin (H. sapiena), EST, Weaky similar it TUBULIN BETA-5 CHAIN (M. musculus), ESTs, Highly similar AZS113 lubulin beta chain 15 - rat (F. norvegicus), FKS06-binding prol 14 (12XD), RIKEN cDNA 23100611 gene, RIKEN CDNA 24100129E14 gene, tubulin, beta 2, tubulin, beta tubulin, beta polypeptide
	1.44	1	f		quinolinate phosphoribosyltransfera
	1	1			(nicotinate-nucleotide
1214	23983	AI229708	v		pyrophosphorylase (cerboxylating);
1215 1216	13874	AI229793 AI229832	e		
1217	12587 20591	Al229979 Al229993	General I,m		ESTs, Weakly similar to MOT2 MOUSE MONOCARBOXYLATE TRANSPORTER 2 (M. musculus), monocarboxylete transporter 4, solcarrier 16 (monocarboxylete transporter 4, solcarrier 16 (monocarboxylete utransporter 4, solcarrier 16 (monocarboxylete), member 8, solute car family 16 (monocarboxylete) and transporters), member 3, solute car family 16 (monocarboxylete) ded transporters), member 7, solute car family 16 (monocarboxylete) ded transporters), member 8
1219	24042	AI230002	a.b.d.General		
					[EST, Highly similar to CCAA MOUS VOLTAGE-OEPENDET PICT-TYPE CALCIUM CHANNEL ALPHA-1A SUBUNTI M. MINEUS ALPHA-1A SUBUNTI M. MINEU
1220	13880	AI230042			voltage-dependent, alpha 1G subun two-pore channel 1, homolog

245	OF MUMAN	I KOMOFOGNEV	NNOTATIONS	May 4 West	Ally, Dockel No. 43924-5039V Doc. No. 179339V
339.ID No.	Maddiffer	GenBunt Accil Ref. Seg. ID No.	Model Gods	Hamblegous Como Marrio	Llandogous Gluster Namo
1222	3652	Al230113	, General		IESTs. Highty similar to EZBE RAT TRANSLATION INITIATION FACTO EIF-2B EPSILON SUBLINIT [Fonovegicias]. HSPC028 protein, RIKEN cDNA 1200015E15 gene, Rattus norvegicus initiation nactor et 25e mRNA, complete dds, basic leucine-zöper protein EXAP45, eukaryotic translation initiation factor 28, subunit 5 (epsilon, e2kD), expressed sequence C81315
					EST, Weashy similar to ENPT, HUMB ENDOPLASMIN PRECURSOR [H.sapinan], ESTS, Highly similar to HABSR RAT HEAT, Highly similar to HABSR RAT HEAT, SHOCK PROTEIN HABP 90-BETA (R.nonegicus), ESTS, Wealty similar to ENPT_HUMBAN ENDOPLASMIN PRECURSOR (H.sapinan), Home sapinan miNux, CONA DIAZ, SSEPT-SS (timo dano DOZ, 256479-SS (timo da
223	18650	AI230121	aa	1	1, tumor rejection antigen gp96
1224	13025	AI230173	c		ESTs, Moderately similar to CHD3_HUMAN CHROMODOMAIN HELICASE-DNA-BINDING PROTEIN 3 [H.sapiens], chromodomein helicasi DNA binding protein 3 ESTs, Highly similar to A47327 selenoprotein P precursor [H.sapiens]
225	4280	AI230247	z	selenoprotein P, plasma, 1	selenoprotein P, plasma, 1
228	18528	AI230284	General		
					Homo sapiens, clone IMAGE:384525
227	7084	AI230362 AI230549	lb.n		mRNA, partial cds
229	12961	AI230549	General		
230	15636 4121	AI230616 AI230647	r		EST, Moderately similar to GALECTIN 1 (R.norvegicus), Human H.14 gene encoding beta-galactoside-binding lectin, 3'end, cione 2, RIKEN CDNA 200006F12 gene, beta-galactoside- binding, sobuble 1, lectin, galactosid- binding, sobuble, 1 (galactin 1), lectin, galactoside-binding, soluble, 2 (galactin 2)
231	4121	AI230647	μ.m		DNA segment, Chr 17, ERATO Doi
232	14388	AI230702	General		441, expressed, hematological end neurological expressed 1
233	18529	Al230716	x,General		
					EST, Weakly similar to JW0105 synaptojenin 2 alpha protein - mouse [M.musculus]. ESTs, Weakly similar to 2204390A synaptojanin [R.norvegicus]. ESTs, Weakly similar to JW0105 synaptojanin 2 alpha protein - mouse [M.musculus],
234	13618	Al230724	General		expressed sequence AA675315, inositol polyphosphate-5-phosphatase 75kD, putative phosphatase, suppressor of actin 1, synaptolanin 2

12 V		Contract of the			Altiy, Doeket No. 4/1921-6/1997 Doe, No. 179399
Sog. ID No.	identifier	ConBont: Ace./ Ref. Seq. ID No.	Model Gode	Kenirologous Gerro Nemo	Horiologous Gustor Mario
1236	4731	Al230773	е		
1237	14430	Al230798	c,k,x	1	
1238	16627	Al230822	bb		Alg5, S. cerevisiae, homolog of, dolichyl-phosphate mannosyltransferase polypeptide 1, catalytic subunit
1239	3125 633	A/231028 A/231127	General k		DMA segment. Chr. 10, EDATO Dol 308 expressed. STR, Weakly stimule 19 PIN, RAT PROTEIN TYROSINE PHOSPHATAES, NON-RECEPTOR TYPE 21 (R.norvegicus), Homo sapiens, Similar to eyimotoje, aspiens, asp
1241	20846	AJ231140	P		EST, Highly similar to 60S RIBOSOMAL PROTEIN 123A [R.norvegicus], ESTs, Highly similar I RL2B_HUMAN 60S RIBOSOMAL PROTEIN L23A [H.sapiens], ribosom protein L23a
1242	6743	Al231219	d		protein czsa
1244	26292	Al231391	k .		<del> </del>
245	12343	AI231433			
			w		
1246	7337	Al231465	98		<u> </u>
1247	16321	Al231506	General .		
1248	8004	Al231532	j,ı		ESTs, Moderately similar to 2183_HUMAN ZINC FINGER PROTEIN 183 [H. sapiens], zinc finge protein 183 [RING finger, C3HC4 typt BCI2-associated athanogene 3, BcI2 associated athanogene 3, RIKEN
0.40					cDNA 1600025G07 gene, RIKEN
249		AI231792	9		cDNA 2410112I15 gene
250	6193	Al231797	·		
252 .	14227	AI231999	u		RIKEN cDNA 2810411G23 gene, tumor protein D52-like 1
					EST, Moderately similar to EF1D_HUMAN ELONGATION FACTOR 1-DELTA [H.sapiens], EST: Weakly similar to EF1D_HUMAN ELONGATION FACTOR 1-DELTA [H.sapiens], eukaryotic translation elongation factor 1 delta (quanine
			Į		
253	24501	AI232006	w.v.bb		nucleotide exchange protein), hypothetical protein FLJ20897

14		HOMOFOGNEV	1		Aug. Dockel No. 4492( 4089) Doc No. 179380
839. ID No.	dentifier	Combants/Accul Rof Scop (D No.	Model Code	Lorrologous Gana Marica	Remalogous Olivator Name
1255	19094	Al232021	n,General		ESTs, Highly similar to Human Translation Initiation Factor Elf1, Nm 29 Structures (H.sapiens), RiKEN CDNA 1500010M16 gene, RIKEN CDNA 3110001114 gene, putative translation initiation factor, suppress of initiator codon mutations, related sequence 1 (S. cerevisies)
1256	14020	AI232076	U		
1257	6726	AI232157	d		
1258	11549	AI232174	l,m		1
1259	23125	AI232266	j,s		
1260	2085	AI232270	bb		
1261	2913	AI232272	0	4	
1262	14304	AI232281	9		
1263 ×	15955	AI232294	u,bb,General	1	
1264	15122	AI232303	у		IDKZEP568H973 protein, Homo sapiens chromosome 19, cosmid R31343, RIKEN cDNA 1700065819 gene, RIKEN cDNA 5730408C10 gene, Ilikely ortholog of mouse g1- related zinc finger protein, ring finger protein 13, zinc finger protein 103 jourfingric receptor PZN (land-datet
1265	4716	Al232313	y	purinergic receptor P2X, ligand-gated ion channel 4, purinergic receptor P2X, ligand-gated ion channel, 4	journergic receptor P2X, ligand-gatel ion channel 4, purinergic receptor P2 ligend-gated ion channel, 1, purinerg receptor P2X, ligand-gated ion channel, 4
1266	15246	AI232332	t,u		
1267	24321	AI232340	o	stromal cell derived factor 1, stromal cell-derived factor 1	stromal cell derived factor 1, stromal cell-derived factor 1
1268	16172	Al232341	d		
1269		AI232346	h		
1270	19287	Al232379	1	pletelet derived growth factor receptor, eipha polypeptide, platelet- derived growth factor receptor, alpha polypeptide	
		AI232461 AI232489	n,General		Flavin-containing monooxygenase 1, flavin containing monooxygenase 1, flavin containing monooxygenase 2, flavin containing monooxygenase 3, flavin containing monooxygenase 4, hypothetical protein PRO1257
2.4	17001				ESTs, Moderately similar to A27340
	5572	AI232490	i.i		complement C7 precursor [H.sapiens complement component 7
	11157		cc		
	8709	Al232534	o		Dna.] (+Isp40) homolog, subfamily B, member 3. Dna. (Hsp40) homolog, subfamily B, member 6, ESTs, Moderately similar to HSL2, HUMAN DNA.J PROTEIN HOMOLOG 2 [Hsapiens]. ESTs. Weakly similar to HSL2, HUMAN DNA.J PROTEIN HOMOLOG 2 [HSAPENDA DNA.J PROTEIN HOMOLOG 2 [HSAPENDA DNA.J PROTEIN HOMOLOG 2 [HSAPENDA DNA.J PROTEIN HOMOLOG 2 [HSAPENDA DNA.J PROTEIN HOMOLOG 2 [HSAPENDA DNA.J PROTEIN HOMOLOG 2 [HSAPENDA DNA.J PROTEIN HOMOLOG 2 [HSAPENDA DNA.J PROTEIN DNAJ PROTEIN DNAJ PROTEIN DNAJ PROTE
		AI232552	j.v.y		
		AI232631	e		
278	4440	AI232643	w		

WBUE	si i waxan	HOMOLOGUEA	NNOTATIONS		Aug. Dooler No. 44221-50320 Doo. No. 473333
99.ID	dentition	GarBank Aced Raft Sing, ID No.	Model Gode	Hamalegove Gene Name	Standarde - Cluster Namo
1279	<b>17895</b>	A1232784	0		2.4-disnoyl CoA reductase 1, microhordin 2,4-disnoyl CoA reductase 1, microhordin 2,4-disnoyl CoA reductase 2, peroxisomal, ESTS, enc. (24 disnoyl CoA reductase 2, peroxisomal, ESTS, enc. (24 disnoyl-case) 1, peroxisomal, ESTS, enc. (24 disnoyl-case) 1, peroxisomal 2, peroxis
280	15796	AI232874	v		
1281	12873	Al232924	General		ESTs, Highly similar to 149636 DNA- obriding protein - mouse (M-musculus ESTs, Moderately similar to 14933 DNA-briding protein - mouse DNA-briding protein - mouse CGF - HUAND, 2MO FINSES PROTEIN OZE (H. sagiena), RIKEN DNA 23 10011-1659 gene, pancreas zine finger protein, zine, finger protein 260, zine finger protein 36 (KOX 16), zine finger protein 65, zine finger protein protein 97
1283	5355	AI233031	r		
1284 1285 1286	3823 11967	A)233121  A)233147  A)233155	b.g.General		ONA segment, Chr 17, human DSS81E 1, ESTs, Highly similar to SS3981 translation initiation factor eff 4A.I [H.saplens], HLA-B associated transcript 1, Human clone 23933 mRNA sequence, eukaryotic translation initiation factor 4A, isoform 1, mitochondrial DEAD-box polypeptide 28, nuclear RNA helicase DECD variant of DEAD box family
287	11561	AI233182	ld .		
288	3471	AJ233183	9		putative receptor protein
289	21948	AJ233191	i ,		
290	13598	AJ233194	g.p.y		4
291	15552	A/233195	У	and the second of the second o	EST, Moderately similar to EGFR, HUMAN EPIDERMAI. GROWTH FACTOR RECEPTOR PRECURSOR (H. sapiens). Epidem growth factor receptor, formerly aviar erythroblastic leukenia viral (v-erb8) oncogene homolog (Erb01), and erythroblastos oncogene 8 a, epidermai growth factor receptor, epidermai growth factor receptor, epidemsi growth factor receptor, epidemsi growth factor receptor, epidemsi growth factor receptor, (eviden erythroblastic leukenia viral (v
292	17907	AI233224	bb		erb-b) oncogene homolog)
293	14111	Al233269	cc		
294	12894	Al233365	d i		
	7161	AJ233407	General ]		1
295		A1233426	0		
295 296 297	15906	AI233425 AI233433	9		

TABLES	); HUMAN	HOMOLOGUEAL	EXICITATIONS	1. 经推广与支票	Ally, Dooker No. 2/1924 - 5189X Doe, No. 17/98897
Seq. (D No		Contract Accur Roft Son, ID No.	Modal Gode	Homologous Gana Name	Namologous Gluster Numo
1299	3075 6046	AI233494 AI233530	u,aa General		oxidase (cylochrome c) assembly 1- like
1300	18900	AI233530	General		EST, Moderately similar to S56108 26S proteasome regulatory complex chain p31 [H.sapiens], proteasome (prosome, macropain) 26S subunit, non-ATPase, 8
1302	7888	AI233583	General		Homo sapiens, clone MGC:14993 IMAGE:3613406, mRNA, complete cds, arginyl-IRNA synthetase
1303	16709	AI233602	General	adenosine kinase	adenosine kinase, expressed sequence Al255373
1304	5163	AI233712	у		protein phosphatase 1D magnesium dependent, delta isoform
1305	7243	AI233717 .	General		coatomer protein complex, subunit alpha, embryonic ectoderm development
1306	3816	Al233729	q		Homo sapiens cDNA FLJ10203 fis, clone HEMBA1004930, moderately similar to 26S PROTEASOME SUBUNIT S5B, proteasome (prosom macropain) 26S subunit, non-ATPase 5
1307 1308	13023 14871	A)233740 A)233743	d,h,General g		Addehyde reductase 1 (box Km adsos reductase) (5 ab Pull fragment, probably the functional gena), EST, Highly smills for Adson Reductase (16 ab Pull fragment, 16 ab), and the second se
1309	7469		СС		Golgi-associated, gamma-adaptin ear containing, ARF-binding protein 2
			b		
	13563			A kinase (PRKA) anchor	
	16616		k,cc ,	protein (gravin) 12	
	13393		a,d,General		EST. Moderately similar to CYSR RACYSTEINE-RIOP RPOTEIN I R nonvegicus]. ESTs, Weakly similar to CYSR RACYSTEINE-RIOP (TOYSTEINE-RICH) ROUTED IN THE RESTS, Weakly similar to CYSR RAT CYSTEINE-RICH PROTEIN I IR nonvegicus]. ESTs, Weakly similar to S12585 cysteine and plyche-rich protein 1, cysteine and plyche-rich protein 1, cysteine rich protein 2, eysteine-rich protein 3, epithesial protein tost in neoplasm beta, thymus LIM protein.

1			INONA 10115		Ally, Docket No. C-1221-5000 Doc. No. 177936
300, ID No.	Mentiffer	Gor Don't Accil Raf. Seq. ID No.	Model Gods	Morniologous Gana Marina	ionico con Cluster Namo
316	14677	AI234620	General		
317	4443	Al234629	m		
318	22453	Al234678	b		]
319	23964	AI234748	t,General	1	
320	19581	AI234753	f		
1321 1322	22152	A)234822 A)234865	o,General	RAS, dexamethasone- induced 1	Harvay rat sarcoma oncogene, subgroup R. RAP1B, member of f oncogene family, RAP2B, member RAS oncogene family, RIKEN cDN 40210218 gene, RIKEN cDNA 402102618 gene, RIKEN cDNA 4930258B11 gene, RIKEN cDNA 5830461H18 gene, RIKEN cDNA 5830461H18 gene, RIKEN cDNA 5830461H18 gene, RIKEN cDNA 5840461H18 gene, RIKEN cDNA 5840461H18 gene, RIKEN cDNA 5850461H18 gene, RIKEN
322	10342	A1234003		<del> </del>	ATPase, H+ transporting, lysosom
323	22662	AJ234939	38		(vacciolar proton pump), subunit 1, EST, Weakly similar to 154197 inypothelical protein [H.sapjens], EWeakly similar to 164197 inypothelical protein [H.sapjens], EWEAKLY SIMILAR TO MASS TO ACCESSORY PROTEIN) (V. ATTANSE SI SUBUNIT SI PRECUNSOR (V. ATTANSE SI SUBUNIT AND THE CURSORY PROTEIN) (V. ATTANSE SI SUBUNIT (V. ATTANSE SI SUBUNIT (V. ATTANSE SI SUBUNITA (V. ATTANSE SI SUBUNITA (V. ATTANSE SI SUBUNITA (V. ATTANSE SI SUBUNITA (V. ATTANSE SI SUBUNITA (V. ATTANSE SUBUNITA ACAS PRECURSOR (E. 33.6.1.34)
324	3875	AI235047	o,General		ESTs, Moderately similar to CB80_HUMAN 80 KDA NUCLEAR CAP BINDING PROTEIN [H.sapier Homo sapiens cDNA FLJ11599 fis, clone HEMBA1003879, nuclear cap binding protein subunit 1, 80KD
325	19479	AI235135	0		
326	14906	Al235192	9.		ATP-binding cassette, sub-family F (GCN20), member 1, ATP-binding cassette, sub-family F (GCN20), member 2, hypothetical protein FLJ11198
327	14718	Al235210	в		
328	15004	AJ235224	b,General		EST, Moderately similar to TIM fix METALLOPROTEINASE INHIBITC PRECURSOR [R.norvegicus], EST Weakly similar to TIM f RAT METALLOPROTEINASE INHIBITC PRECURSOR [R.norvegicus], itsuinibitor of metalloproteinase, itsuinibitor of metalloproteinase 1 (erythroid potentiating activity, collagenase inhibitor)
329	6632	AJ235277	V	L	1
330 ,	14722	AI235284	x,z		ESTs, Highly similar to A60592 T-c surface glycoprotein E2 precursor [H.saplens], Homo saplens cDNA FLJ13471 fis, clone PLACE100356 antigen identified by monoclonal antibodies 12E7, F21 and 013, hypothetical protein DKFZp761H20
331 332			u,General		
	21061		l,m		

TAPLE	et Human	HOWOFOGREY	SHOTENONS	動物 多压力	ATTY, Docket No. 44924 -519000 Doc. No. 1793797
300, ID Xo	Mentiliar -	GenBark Acc./ Ref. Seg. ID No.	Model Code	"Domologous Com Namo	Memolograva-Cilvator Namo
				MAD (mothers against decapentaplegic, Drosophila) homolog 4, MAD homolog 4	MAD (mothers against decapentaplegic, Drosophila) homolog
1333	14665 ,	A1235646	lm '	(Drosophila)	14
1334	19940	Al235689	General		
1335	5698	AI235692	u		
1336	23745	AI235732	k		ESTs. Weakly similar to LDVR RAT VERY LOW-DENSITY LIPOPROTEIN RECEPTOR PRECURSOR [Rnovegleus], RIKEN CDNA 4933405111 gene, Very low density ilipoprotein receptor, nidogen 2, secreted modular catcium-binding protein 1, secreted modular catcium-binding protein 2, very low density lipoprotein receptor modular catcium-binding protein 2, very low density lipoprotein receptor
					ESTs, Highly similar to A56716 aromatic ester hydrolase [H.sapiens], blphenyl hydrolase-like (serine hydrolase; breast epithelial mucin-
1337	11164	AI235739	General		associated antigen)
1338		Al235745	d		
1339		Al235912	h		
1340			m		
1341		AI236027 AI236045	n,General		
1342			r		
1344		Al236097	e p		integral membrane protein 2 B, integral membrane protein 2B, integral membrane protein 3
1345		AI236101 -			
1346			v		
1347			e		Down syndrome critical region gene 5
1348					
1349	18406	AI236168			
1350	15051	A1236332	General		ESTs, Weakly similar to ATDA, HUMAN DIAMINE ACETYLTRANSFERASE [H.saplens], RIKEN cDNA 2610016A03 gene, RIKEN cDNA 4930404422 gene, spermidine/spermine N1-acetyl transferase, spermidine/spermine N1- acetyltransferase
1351	19298	AI236338 3	bb		ESTs, Highty similar to NHPX RAT NHP2/RS6 FAMILY PROTEIN YELO26W HOMOLOG IR norvegicus), RIKEN coNA 241030M07 gene, non- histone chromosome protein 2 (S. cerevisiae)-like 1, nucleolar protein family A, member 2 (HACA small nucleolar RNPs), sperm specific antigen 1

TABLE	8. HUMAT	NHOMOLOGUEA	SKIOLIVATIONS		ANY DOCKET No. 64924 ST
					Dos. No. 179
300, (b)	identific	PeriDant Aced Ref. Seg. 10 No.	Microsi Codo	Hernologous Gorio Namo 4n 1	Mamologicus Chuster Neuro
					ELAV (embryonic lethal, shroor vision, Prosophilis-Jike 4 (Hu an D), EST, Highly similar to 22014 functions polych-hinding protein ducibles polych-hinding protein ducibles polych-hinding protein (Passing 1874). Find the protein (Hu aspient), ESTs, Highly similar to HUD RAT PRARAMEDINE ESTS, Highly similar to HUD RAT PRARAMEDINE ESTS, MODERNEY similar to HUD RAT PRARAMEDINE ESTS, MODERNEY similar to HUD RAT PROMORE HIND STA
					splicing factor, Ro ribonucleoprot
1352	10667	AI236366	ь		binding protein 1
1353	19407	Al236397	1		
1354	26335	Al236402 Al236460	General		
1356	17950	AI236590	t.General		
1357	118259	AI236601	h,v		
1358	11445	Al236613	i.y		
1359	17248 16859	AI236635	o,ea t,General		S-phase kinase-associated protei (p19A), transcription elongation fa B (SIII), polypeptide 1 (15 kDa),-li transcription elongation factor B ( polypeptide 1-like
1361	5208		g .		chromosome 8 open reading fram
1362	24388		e,General ,		- Spar radiong name
1363	15850		n.v.w		EST, Highly similar to HS9B RAT HEAT SHOCK PROTEIN HSP 90 BETA [R. norvegicus], EST, Weak similar to HHMS94 heat show (A. nouse [M. musculus], EST, Highly similar to T46243 hypothetiprotein DKFZp761K051, Pupple [H. sapins], expressed sequence C81438, heat shock 90KD protein beta, heat shock protein, 4 KD2
1364	14800	AI236856	w		
1366	11404	AI237002	m		Human DNA sequence from clone RP5-1057D4 on chromosome 20 Contains a spermidine synthase (SPDSY) pseudogene, a CpG islan ESTs, STSs and GSSs, spermidin synthase
1300					
1367	18151		o,General		hepatitis B virus x-interacting prote (9.6kD)

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				-258-	
TABLE	ą. Humax	HOMOROGUETA	NNOTATIONS		Alija Dockej No. 44924-51119 Doc. No. 17933
Sog. ID No.				Homologous Gana Nema	Hamatagaus (Tustar Namo
1369	11208	A1237586	,z		EST, Weakly similar to JC1241 be interferon-induced protein - rat [R.norvegicus]. ESTS, Moderately similar to JC1241 beta-interferon- induced protein - rat [R.norvegicus RIKEN cDNA 1110036C17 gene, RIKEN cDNA 4933438K12 gene, interferon induced transmembrane protein 2 (1-8D)
1370	21893	AI237713	i,k,aa		KIAA0101 gene product
1371 1372 1373	3467 25840	AI237724 AI237835 AI638972	General		ESTs, Highly similar to MXI1 RAT MAX INTERACTING PROTEIN 1 (R.novegicus), MAX dimerization protein, MAX-interacting protein 1, Max dimerization protein, Max interacting protein 1
1374	17108	Al639017			[EST, Highly similar to \$30385 GSz protein (H. agoiens), ESTs. Weakly similar to T17453 ERG-associated protein ESET - mouse (M. musculu- HLA-B associated transcript 8, SE domain, bifurcated 1, expressed sequence C77070, hypothetical protein FLJ12679, suppressor of variegation 3-9 (Drosphila) homol 2: hypothetical protein FLJ23414
375 376	16676 12400	Al639082 Al639107	c,k,x	mini chromosome maintenance deficient 6 (S cerevisiae), minichromosome maintenance deficient (mis5, S. pombe) 6	mini chromosome maintenance deficient 6 (S. cerevisiae), minichromosome maintenance deficient (mis5, S. pombe) 6
1377	19952	Al639107	q,v		
379	25907	AI639167	lo.w		i
381	18533	Al639231	n		hypothetical protein, hypothetical protein FLJ20333 ESTs, Moderately similar to dJ63G [H.sapiens], RIKEN cDNA
			1		1700034K16 gene, RIKEN cDNA
382 384	18353	AI639233 AI639285	t,aa General	decorin	5530600M07 gene, decorin
384	20026	Al639354	General	<del> </del>	
386	25971	Al639365	ir	<del> </del>	
388	19152	AI639387	u,General		
390	18338	A1639422	ly.		EST, Weakly similar to CAQC RAT CALSEQUESTRIN, CARDIAC MUSCLE ISOFORM PRECURSOR [R.norvegicus], calsequestrin 1, calsequestrin 1 (fast-twitch, skeleta muscle), calsequestrin 2, calseque 2 (cardiac muscle)
392 394 395	20082 20056 4713	Al639488 Al639504 Al639518	i,m a,bb,General q		EST. Moderately similar to A Chain Mdm2 Bound To The Transactivatik Domain Of P53 (SUB 17-125 [H.saplens], mouse double minute human homolog of; p53-binding protein, transformed mouse 3T3 ce double minute 2

South 1		li ioworoen≡v			Any, Docket No. 4/921-50307 Doc. No. 1793397
809.ID No.	ldentifler	Gar Berrik Assul Roft Seq. (D No.	Model Gode	Momologous Gono Name	demoltar on Olyster Name
1396	14332	AJ001044	bb		IEST, Moderately sensier to T42215 considerates nouse (M. musculus). EST, Weakly similar to MUC2, HUMM MCD14 2 PRECURSOR (H. Lappens). MCD14 precursor of the moderate of the
1397	7602	AJ001929	· k		EST, Weakly similar to CGHU3B
					Collegen alpha 38(V) chain precursor, long spice form [H.sapiens], EST, long spice form [H.sapiens], EST, weakly similar to A0750 proline-rich protein PRB 1/28 [H.sapiens], RIKEN CONA 2410150118 gene, RIKEN CONA 2410150118 gene, RIKEN CON A2410150118 gene, RIKEN CON A2410150118 gene, RIKEN CON A2410150118 gene, expressed sequence A1551093, milogen-activated protein kinase 7, murine leukemia viral (pm-1) oncogene homolog, nepm-like kinase, and promotion, nepm-like kinase 8, murine leukemia viral (pm-1) oncogene
1398	9867	AJ005424	u		phospholipid scramblase 1
1400	16351	AJ011811	General	claudin 7	ESTs, Weakly similar to CLD7 MOUS CLAUDIN-7 [M.musculus], ESTs, Weakly similar to CLD7 RAT CLAUDI 7 [R.norvegicus], claudin 10, claudin 15, claudin 16, claudin 7
1401	20116	AJ011969	I,General	15, prostate differentiation factor	
					ESTA, Moderately similar to BMCP; HUMAN BRAIN MRTOCHONDRIAL CARRIER PROTEIN: HI sepsend; ESTA Washly similar to MCOM, HUMAN Washly similar to MCOM, HUMAN OXOGUTARATEMALATE CARRIER PROTEIN HIS sepsend; ESTA, Washly similar to brain mileochondrial carrier protein BMCPI (I Munculus), RIICEN CONA 18 10012H11 gene, sepsend sepsending 25; mV1002H, south carrier protein BMCPI (I Munculus), RIICEN control (I Munculus)
402	17635	AJ223355	v,w		carrier; oxoglutarate carrier), member 11, uncoupling protein 2, mitochondria

		LOWOTOOM±V	STOWNOUR STORY		7ANY, Docket No. 44931 456910 Doc. No. 179331
9000, ID No. F∂		ConEant: Acc./ Rof. Sog. ID No.	Model Gore	Hamologous Gene Name	Hanolarous Gluster Verno
				10-11	ESTs, Highly similar to D3D2 RAT 3, TRANS-ENOYL-COA ISOMERASE, MITOCHONDRIAL PRECURSOR
					[R.norvegicus], Homo sapiens, Simili to dodecencyl-Coenzyme A delta isomerase (3,2 trans-encyl-Coenzym
				dodecenoyl-Coenzyme A delta isomerase (3,2 trans	A isomerase), clone MGC:3903 - IMAGE:3630566, mRNA, complete
	1			enoyl-Coenyme A isomerase), dodecenoyl-	cds, dodecencyl-Coenzyme A delta isomerase (3,2 trans-encyl-Coenyme
				Coenzyme A delta isomerase (3.2 trans-enov	A isomerase), dodecencyl-Coenzym
403	18686	D00729	q	Coenzyme A isomerase)	Coenzyme A isomerase)
					ESTs, Weakly similar to ODP2 RAT DIHYDROLIPOAIMDE ACETYL TRANSFERASE COMPONENT OF PYRUNATE DEHYDROGENASE COMPLEX (Ronveglous), Mis musculus, clone IMAGE:3586777, mRNA, partial cds, Pyruvate dehydrogenase complex, topoyl-containing component X; E3- binding protein, RIKEN CDNA 1600017E01 gens, RIKEN CDNA
	5049	D10655	n,w		4930529008 gene, dihydrolipoamide acetyltrensferase (E2 component of pynuvate dehydrogenase complex), dihydrolipoamide branched chain transacylase (E2 component of branched chain keto ecid dehydrogenase complex; maple syru urine disease), dihydrolipoamide branched chain transacylase E2
	25257	D13623	i .		
	15281 11434	D13623	h cc		
	1613	D14076	x		EST, Moderately similar to DYN2 MOUSE DYNAMIN 2 [M.musculus], ESTs, Moderately similar to DYN2 MOUSE DYNAMIN 2 [M.musculus], KIAA0820 protein, dynamin 2
	1728	D16479	q		
	3015	D16554	C,S,V,Z		
	472	D26111	d,s,bb		
412	16233	D29960	JI.		EST, Highly similar to PROTEASOME SUBUNIT RGS-1 [Ronovegicus], EST Highly sharine to PAST, HUMAN PROTEASOME SUBUNIT ALPHA PROTEASOME SUBUNIT ALPHA TO PROTEASOME SUBUNIT AND PROTEASOME SUBUNIT AND PROTEASOME SUBUNIT AND PROTEASOME SUBUNIT ROS-1 [Ronovegicus], ESTs, Weakly similar to PROTEASOME SUBUNIT ALPHA TYPE 7 PROTEASOME SUBUNIT ALPHA TYPE 7 PROTEASOME SUBUNIT ROS-1 [PROTEASOME SUBUNIT ROS-1] (PROTEASOME SUBUNIT ROS-1) [PROTEASOME SUBUNIT ROS-1] (PROTEASOME SUBUNIT ROS-1) [PROTEASOME SUBUNIT ROS-1]
413	9029	D30804		proteasome (prosome, macropain) subunit, alpha type 7, proteasome (prosome, macropain) subunit, alpha type, 7	sequence from clone RP11-1804 on chromosome 9 Contains a proteasom subunit pseudogene, ESTs, STSs, GSSs and a CpG istand, RIKEN cDN/ 2410072024 gene, proteasome (prosome, macropain) subunit, alpha type 7, proteasome (prosome, macropain) subunit, alpha type, 7

1		HOMOLOGUE!A	643/00		Ally, Docket No. 4/921-5131 Doc. No. 17933
Son. ID No	r entitier	Confernit Acc./	Xiorial Girila	Amologous Gara Nama	Yamalagous Gluster Neme
1414	1485	D38222	y.z		PROTEIN-TYROSINE PHOSPHATASE-LIKE N PRECURSOR [H.sapiens], protein tyrosine phosphatase, receptor type N, protein tyrosine phosphatase, receptor-type, N
1415	9135	D45247	S	proteasome (prosome, macropain) subunit, beta type 5, proteasome (prosome, macropain) subunit, beta type, 5	EST, Moderately similar to PRCE F PROTEASOME EPSILON CHAIN PRECURSOR [R.norvegicus], RIKE cDNA 5830406J20 gene, proteasor (prosome, macropain) subunit, beta type 5, proteasome (prosome, macropain) subunit, beta type, 5
1416	16354	D50564	u		
1417	1884	D50695	l.m.bb		proteasome (prosome, macropain) 26S subunit, ATPase, 4
1418	21147	D63772	General	solute carrier family 1 (neuronal/epithelial high affinity glutamate transporter, system Xag), member 1, solute carrier family 1, member 1	200 John, All Bay, 4
					CDP-diacylglycerol-inositol 3-
1419	826	D82928			phosphatidyltransferase
420	25306	D84485	u		(phosphatidylinositol synthase)
1421 1423	18867 22543	D88250 H31117	t r,v,General		LECTIN SERINE PROTEASE 2 PRECURSOR (1-sapiens), EST, Weakly similar to JOSSS4 probable senine profeinase (R.novegicus), [ESTs, Weakly similar to JOSSS4 probable senine proteinase [R.novegicus], MASP-2 protein, complement component 1, r subcomponent, 1 or subco
424	12360	H31456	w		
	20514	H31489	h.j		DNA segment, Chr 16, Indiana University Medical 21, expressed, ESTs, Highly similar to JCS020 tetratricopeptible repeat protein (H. sapiens), ESTs, Moderately similar to JW0059 mtprd protein - mouse [M. musculus], PRO1880 protein, g1- related zinc finger protein, tetratricopeptible repeat domain,
426	11358	H31610	h		tetratricopeptide repeat domain 3
427	4360	H31813	bb,General		DKFZP586B1621 protein
	9343 .	H32169			EST, Moderately similar to COF1_HUMAN COFILIN, NON- MUSCLE ISOFOR [H.sapiens], cofili 1 (non-muscle), cofilin 1, non-muscle cofilin 2 (muscle), cofilin 2, muscle
			h,w .		
		H33636	h		ESTs, Weakly similar to IF39_HUMA EUKARYOTIC TRANSLATION INITIATION FACTOR 3 SUBUNIT 9 [H.sapiens]

				-262-		
WELLS	NAMUEL	KOMOROGNEW	TROTATIONS		- Atty: Doorsof No. 44924 -5039 Dog. No. 17933	
93G. (D) XIS	Marillitar 1	Consoit Ace. / Roll Seq. ID No.	Modal Code	Hamalagaus Gana Nama	Namalarious Olustor Nama	
1432	17159	J00797	u,General		ESTs, Highly similar to A23035 tub alpha chain (H.sapiens), tubulin alph 1, tubulin alpha 2, tubulin alpha 3, tubulin alpha 6, tubulin, alpha 2, tubulin, alpha 3, tubulin, alpha, tubiquitous	
1433	16260	J01878	if.		uoiquitous	
1434	17284	J02827	bb	branched chain keto acid dehydrogenase E1, alpha polypeptide (maple syrup urine disease), branched chain ketoacid dehydrogenase E1, alpha polypeptide		
1435	15017	J03752	n			
1436				thyroid hormone receptor beta, thyroid hormone receptor, beta (avian erythroblastic leukemia viral (v-erb-a) oncogene		
1430	44	J03819	p,s	homolog 2)	FCTs Madamid aladiants	
1437	21014	.103914	e.r.General	glutathione S-transferase M2 (muscle), glutathione S transferase, mu 2	ESTs, Moderetely similer to GLUTATHIONE S-TRANSPERASE YB1 [R.norvegicus], glutathione S- transferase M1, glutathione S- transferase, mu 1	
1438	20429	J05035		steroid 5 alpha-reductase 1, steroid-5-alpha- reductase, alpha polypeptide 1 (3-oxo-5 alpha-steroid delta 4-	steroid-5-alpha-reductase, elpha polypeptide 1 (3-oxo-5 alpha-steroi	
1436	20429	303033	<u>'</u>	dehydrogenase alpha 1) glutamate-cysteine ligase,	delte 4-dehydrogenase alpha 1) glutamate-cysteine ligase, catalytic	
1439	1247	J05181	j.l,m,s,y,z	catalytic subunit	giutamate-cysteine ligase, catalytic subunit	
1440	10464	J05510 K03243	n.u,General q	inositol 1.4,5-triphosphate receptor 1, inositol 1.4,5- triphosphate receptor, type 1	ESTS. Highly similar to A55713 inot 1,4.5-Highly similar to A55713 inot 1,4.5-Highosphate receptor ype 1 H.sapiend, ESTS, Weakly similar to HP3R MOUSE INOSITOL 1,4.5-TIRSPHOSPHATE-BINDING PROTEIN TYPE 1 RECEPTOR (M.musculus), expressed sequence A1528790, inositol 1,4.5-Highosphat receptor 1, hosistol 1,4.5-Highosphat receptor 1, hosistol 1,4.5-Highospha receptor, type 1	
		K03249	q		ESTs, Highly similar to ECHP_HUM PEROXISOMAL BIFUNCTIONAL ENZYME [H.sapiens], encyl- Coenzyme A, hydratase/3-hydroxya Coenzyme A dehydrogenase	
			w			
			k,x			
			5			
			P			
		L14003				
1450	20414		C.p General	phosphoinositide-specific phospholipase C-beta 1, phospholipase C, bete 1	ESTs, Highly similar to KIAA0581 orotein [H.sepiens]	
				2',3'-cyclic nucleotide 3' phosphodiesterase, cyclic nucleotide phosphodiesterase 1	2',3'-cyclic nucleotide 3' phosphodiesterase, cyclic nucleotide phosphodiesterase 1, hypothetical gene CG018	
		25387		phosphofructokinase, platelet	***************************************	

TABLES	e HUMAN	HOMOTOGREY	EXIOTATIONS		Any, Pocket No. 4324-43339 Dos. No. 179339
Seg. (D)	No.	Gondank Ace./		Hamalegals Can	
Xo, 🕆	Identifier	Ref. Seq. ID No.	Wood Gode	Name	t (Nomologous Gluster Namo
1453	12058	L25387		phosphofructokinase,	ESTs, Highly similar to JC2055 6- phosphofructokinase (H-sapiens), ESTs, Weakly similar to JC2055), Mmusculus adult male stomach cDNA RIKEN full-ength erriched library, clone: 2210-03517, full insent sequence, expressed sequence AA07889, phosphofructokinase, its B-type, phosphofructokinase, muscl phosphofructokinase, pataelte
1100	12000	CEGOOI	f	solute carrier family 1	pricopriori detokinase, plateiet
1455	21146	L35558	General	(neuronal/epithelial high affinity glutamate transporter, system Xag), member 1, solute camer	
1456	106	L37203	w	family 1, member 1	<del> </del>
1458	13682	L37203 L38482	f,į,k,m,z	1	<del> </del>
1459	6405	L38615	D	glutathione synthetase	<del> </del>
1461	15189	M11794	in.v	Torrest Cynthical Control	†
1462	17086	M13011	li .		1
1464	21053	M15481	0		1
465	25405	M18330	j,l		
466	25415	M19648	a		
1468	14967	M22366	w		
1469 .	20481	M22631	bb	1	EST, Moderately similar to UCRI RA
1471	15048	M24542	q		REDUCTASE IRON-SULFUR SUBUNTI, MTO-CONDRIAL PRECURSOR IR, nonegicus), EST, weakly similar to CICH, HUMAN REDUCTASE IRON-SULFUR SUBUNTI, MTO-CONDRIAL PRECURSOR [H. sapiena], EST, Moderably similar to UCR, HUMAN UBICUINOL-CYTCO-HONGE C REDUCTASE IRON-SULFUR SUBUNTI, MTO-CON-SULFUR REDUCTASE IRON-SULFUR PRECURSOR [H. sapiena], EST, MODERATE CONTROLLER PRECURSOR [MTO-CONDRIAL PRECURSOR [MTO-
				cytochrome P450, subfamily IV B, polypeptide 1, cytochrome P450, subfamily IVB, polypeptide	Mus musculus, Similar to cytochrome P450, 4a10, clone MGC:25972 IMAGE:4240359, mRNA, complete
472	20921	M29853	m	1	subfamily IVA, polypeptide 11
473	1224	M31931			cytochrome P450, subfamity IIA (phenobarbital-inducible), polypeptid 13
			q		
		M33648	0		

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90g (D No.	Manifier	Controls Accul Roll Scop (10 No-		Manualagous Game Manua	Mamalarrova Glustar Nerro
					EST. Moderately similar to 695 RIBOSOMAL PROTEIN 135 IR. norvegicus). EST. Moderately similar to 601477 ribosomal protein 135 IR. sapiens). EST. Weakly similar to 6015 RIBOSOMAL PROTEIN 135 IR. norvegicus). ESTs. Highly similar 601477 ribosomal protein 135 IR. norvegicus). Human DNA sequence chromosome 22 Cortains a pseudogane similar to ribosomal protein 135, ESTs. STSs and GSSs protein 135, ESTs. STSs and GSSs
1475	17211	M34331	g,n,q,v		RIKEN cDNA 2410039E09 gene, ribosomal protein L35
1476	20699	M35601	b,x,bb	fibrinogen, A alpha polypeptide	Homo sapiens clone HQ0582, expressed sequence Al303526, fibrinogen, A alpha polypeptide, fibrinogen, gamma polypeptide
1476	20700	M35601	b,t,bb	fibrinogen, A alpha polypeptide	Homo sapiens clorie HQ0582, expressed sequence Al303528, fibrinogen, A alpha polypeptide, fibrinogen, gamma polypeptide H.sapiens DMA, DMB, HLA-Z1, IPP
1477	9223	M36151			LMP2, TAP1, LMP7, TAP2, DOB, DQB2 and RING8, 9, 13 and 14 genes, expressed sequence AI8458
1479 -	1585	M57728	j,m,y		Homo sapiens mRNA: cDNA
1480	24844	M58040	c		DKF2p434M2227 (from clone DKF2p434M2227), Homo sapiens prostate-specific membrane antigen PSM mRNA, exon 6 alternative spik variant, partial cds, RIKEN cDNA 2510028K12 gene, folate hydrolase, transferrin receptor, transferrin raceptor (p90, CD71), transferrin raceptor (p90, CD71), transferrin preceptor (p90, CD71), transferrin preceptor 2
1481	25057	M58495	h		
1482	457 .	M60666	d,General	tropomyosin 1 (alpha), tropomyosin 1, alpha	ESTs, Moderately similar to alpha- tropomyosin slow [M.musculus], tropomyosin 4
1483	1223	M75281	1		
484	5733	M81855	i,k,aa	ATP-binding cassette, sub- family 8 (MDR/TAP), member 1, 4TP-binding cassette, sub-family 8 (MDR/TAP), member 18	ATP-briding cassette, sub-damily B (MDRTAP), member 1, ATP-briding cassette, sub-damily B (MDRTAP), member 10, ATP-briding cassette, sub-damily B (MDRTAP), member 1, ETP-briding cassette, family B (MDRTAP), member 8, ES Hulphy shimite to MDR3 MOUSE MULTIDRUG RESISTANCE PROTE 3) flumuscubus; EST. Weekly simite to MDR1 ATP ATM MULTIDRUG RESISTANCE PROTEIN 1 (R.novvagious), ESTe, Weekly simite to MDR1 MOUSE MULTIDRUG RESISTANCE PROTEIN 1 (R.novvagious), ESTe, Weekly simite to MDR1 MOUSE MULTIDRUG RESISTANCE PROTEIN 1 (M.musculus)
	0,00		ı,n,aa	(MONTAL), Member 18	ESTs, Highly similar to A41734 beta- galactoside alpha-2,6-slalyltransfera:
485	4198	M83143	m		(H.sapiens)  ESTs, Highly similar to A41734 beta-
485	4199	M83143	m.		galactoside alpha-2,6-sialyltransfera: [H.sapiens]
486 ;	24651	M83678	k,x,z		RAB13, member RAS oncogene family, RIKEN cDNA 0610007N03 gene, expressed sequence AW10773

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WABUE	e. Human	koxofoansvi	SMOTATIONS		Atty-Docket No. 44921 - Doc No. 17
800.10 No.	Udantillar	ConBents Acc./ Roll Soc. ID No.	Model@odo	Hamologous Coma Nama	Homologous Cheter New
1487	1430	M84648 M93297	General	dopa decarboxylase, dopa decarboxylase (aromatic L amino acid decarboxylase)	EST, Highly similar to AROMA AMINO-ACID DECARBOXYL/ IRROVERSIA SIMILAR TO AROMATIC-L-AMINI DECARBOXYL/ SIMILAR TO AROMATIC-L-AMINI DECARBOXYLASE (R.nonege Mus musculus 10 days embryl RIKEN full-length enriched libr cione:2610198021, full insert sequence, dopa decarboxylas-decar
1400	125467	M93297	ic		ESTs, Highly similar to NTG3
1489	729	M95762	a.y		SODIUM- AND CHLORIDE- DEPENDENT GABA TRANSP 3 [M.musculus], EST, Weakly to NTG3, HUMAN SODIUM- A CHLORIDE-DEPENDENT GAL TRANSPORTER 3 [H.saplens] expressed sequence AA59953 solute carrier family 6 (neurotransmitter transporter, 6 member 13) DNA segment, Chr 9, ERATO I
1490	23698	NM 012489	g		expressod, Homo septem solom RINNA, partial col, Homo septem Similar to Acety-CoA acytima of Similar to Acety-CoA acytima of Acoa capt-CoA thickles A, peroxisomal, cone MGC: 1977. MAGE-19520E, mRNA, comp provisional scancer (Coency) thiolese), clone MGC:23127 MGC-1950E, partial cone of MGC-1950E, pa
					DNA segment, Chr. 9, ERATO' Excressed, Home sepimes donn mRNA, partial ofs, Home saips similar for Acetyl-CoA applirantal Similar for Acetyl-CoA applirantal 3-axoa acyt-CoA thiotase A, porticos and to the Michael A, and the Acetyl-CoA management of

	22.00	1302	notations .		Arry Docket No. 4/92/4508 Doc. No. 17938
ag, ID. Io.	ldentifier	Gen Bank Ascul Ref. Seq. ID No.	Modal Gode.	Homologous Cano Namo	Flomologicus Chester Name
491	7062	NM_012495	q	aldolase 1, A isoform, aldolase A, fructose- bisphosphate	IEST, Mosterately similar to ADHUR finctions-bisphorphate aldolases [H.s.apiena], EST, Weakly similar tr ADHUA finctions-bisphorphate aldolase [H.sapiena], EST, Weakly similar to 1934-55 fructose- bisphosphate aidolase [H.sapiena], ESTs, Modernt-sy similar to aldolase [H.musculus], Homo sapiena, aidol [H.musculus], Homo sapiena, aidol [H.musculus], Homo sapiena, aidol [H.musculus], Homo sapiena, aidol [H.musculus], Homo sapiena, aidol cuts, RICEN CDNA 40334751, 11 ges adolase 1, A idom, aidolase 3, C isoform, aidolase 3, C isoform, aidolase 3, C isoform, aidolase 3, C
				aldo-keto reductase family 1, member B1 (aldose	
				reductase), aldo-keto reductase family 1, member B3 (aldose	
92	15511	NM_012498 .	lu	reductase)	Human DNA sequence from clone
94	7427	NM_012515	General	bensodiazapine receptor (peripheral). peripheral peripheral	34821 on chromosome 8912.1-21. Contains part of a gene for a novel protein with 2US domain similar to of Tight Jurcico 1 gene for a novel protein with 2US domain similar to of Tight Jurcico 1 gene for hovel BZRP (perpharta benzadiazapine recapior (MBRP) PRKS, IBP, Isoquinoine-binding protein) ILKE protein, the gene for novel protein similar to part of VAPOECT (Phorbooth 1, Apoliporo, 1 general protein) ILKE protein similar to part of VAPOECT (Phorbooth 1, Apoliporo 1 general protein) ILKE protein similar to part of VAPOECT (Phorbooth 1, Apoliporo 1 general protein) ILKE protein similar to part of VAPOECT (Phorbooth 1, Apoliporo 1 general protein similar to part of VAPOECT (Phorbooth 1, Apoliporo 1 general protein) IAPOECT (Phorbooth 1, Apoliporo 1 general protein subunit A). Contains eSTIs, STIS, GSSs, who putative CpG islands and as repeat polymorphism, RIKEN CC 2010/27/202 (per, benzodiazapin ecceptor, peripheral cholinergic receptor, muscanine 1, and colinergic rec
				muscarinic 3, cholinergic	CNS, cholinergic receptor, muscaria
5	24433	NM_012527		receptor, muscarinic 3, cardiac	<ol> <li>cholinergic receptor, muscarinic cardlac</li> </ol>
					EST, Moderately similar to CREATI KINASE, B CHAIN [R.norvegicus], EST, Weakly similar to KIHUCB
96 4467	4467 .	NM_012529	d ,	creatine kinase, brain	creatine kinase (H.sapiens), creatin kinase, brain
					DNA segment, Chr 3, ERATO Doi 2 expressed, EST, Highly similar to 1012298A factor VIIIC (H.sapiens), ESTS, Weakly similar to CERU MOUSE CERULOPLASMIN PRECURSOR (M.musoulus), ESTs, Weakly similar to CERU RAT CERULOPLASMIN PRECURSOR (R.norvegicus), ESTs, Weakly similar to CERULOPLASMIN PRECURSOR (R.norvegicus), ESTs, Weakly similar to URUL Weakly Services (R.norvegicus), ESTS, Weakly similar to URUL Weakly Services (R.norvegicus), ESTS, Weakly similar to CERULOPISON, Cerulopiasmin, cerulopiasmin, cerulopiasmin, cerulopiasmin, cerulopiasmin

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XO; €00},¶D;	Mentiffier	Confloriti Accul Reft. Seq. (D. No.)	Model Code	Normalogous Grino Narrio	Hornologius Alvetar Namo
1498	225	NM 012544	12.2	angiotensin I converting enzyme (peptidyi- dipeptidase A) 1, angiotensin converting enzyme	ESTs, Highly similar to A31759 peptidyl-dipeptidase A [R. sapiens]. ESTs, Highly similar to JC2038 peptidyl-dipeptidase A [R. norvegical Max musculus adult male testis cDN RIKEN Mil-Binght eriched library. Gone-493342-2004, bill insert sequence, RIKEN cDNA 201035Cb. gene, angiotensin I converting enzyr (peptidyl-dipeptidase A) 1, angiotens converting enzyme
				dopa decarboxylase, dopa decarboxylase (aromatic L	EST, Highly similar to AROMATIC-L- AMINO-ACID DECARBOXYLASE (R.novegicus), EST, Moderately similar to AROMATIC-L-AMINO-ACI DECARBOXYLASE (R.novegicus), Mus musculus 10 days embryo cDN- RIKEN full-lengith enriched library, clone:2810199021, full insert sequence, dopa decarboxylase, dop decarboxylase (aromatic L-amino aci
1499	1431	NM_012545	General	amino acid decarboxylase)	decarboxylase (aronauc c-amino aci
1500	23868	NM_012551	I,m,v,General	early growth response 1	ESTs, Weakly similar to 153869 zinc finger protein - mouse [M.musculus], early growth response 1, repressor of GATA, testls zinc finger protein
1500	23872 ,	NM_012551	I,v,cc,General	early growth response 1	ESTs, Weakly similar to 153869 zinc finger protein - mouse [M. musculus], early growth response 1, repressor or GATA, testis zinc finger protein ESTs, Weakly similar to 153869 zinc finger protein - mouse [M.musculus],
1500	23869	NM_012551	v;General	early growth response 1	early growth response 1, repressor of
	19407	NM 012554	7		GATA, Isalis zinc finger protein EST, Moderatley similar to ALPHA EST, Moderatley similar to ALPHA ENCLASE [R. nonegicus], EST, weakly similar to A29170 phosphopyruvate hydratase [H.sapiens]. Homo sapiens cDNA FLJ12774 fis, chone NTZRP2001863, moderately similar to ENCLASE (EC 4.2.1.11), enclase 1, (alpha), enclase, lugha pencific, expressed sequence A427012
		012304			ANAZ/012 SET, Moderately similar to AL PHA EST, Moderately similar to AL PHA ENOLASE [R. norvegicus], EST, Weakly similar to A 29170 phosphopyruvete hydratase [H.sapiens], Homo sapiens cDNA FLJ12774 lis, cibne N12RP2001663, moderately similar to ENOLASE (ECS 4.2.1.11), enolase 1, (ejpha), enolase ajpha, lung-specific, expressed sequences
501	19408	NM 012554	n,s,v,z		AI427012
				E26 avian leukemia oncogene 1, 5' domain, v- ets avian erythroblastosis	E26 avian leukemia oncogene 1, 5' domain, ESTs, Moderelely similar to FLI1 MOUSE RETROVIRAL INTEGRATION SITE PROTEIN FLI-1 (M.musculus), FEV protein, Rattus norvegicus ETS domain transcription factor Pet-1 mRNA, complete cds, v-
				virus E26 oncogene	ets avian erythroblastosis virus-E26

Sog. ID	Care I was	HOMOLOGUE A Strients Assel Roll Seg. 10 Ma.	1	-268-	Ziny, Bookat No. 43221 46330 Doa, No. 1798397
Sog. ID	Care I was	  GenBents Aug/	1	Helamologous Gane	Dog. No. 1799997
Sog. ID No. 1	Meniffier	Sin Bink Ass./ Ref. Sig. 10 Ma.	Model Gode	Homologous Gene	
				Mariao .	Homologova Gladar Nama
1503	16895	NM_012558	g.s		EST, Weakly similar to FRUCTOSE- 1.6-BISPHOSPHATASE ISOZYME 2 [M.musculus], fructose bisphosphatas 1, fructose bisphosphatase 2, fructos- 1.6-bisphosphatase 1, fructose-1.6- bisphosphatase 2
1504	25317	NM_012559	bb		507 11
1504	6477	NM_012559	b,bb	fibrinogen, gamma polypepilde	[EST, Moderately similar to FGHUGB forthropen gamma—B chain procursor [II-sapiena], EST, Moderately similar I Recombinant Human Gamma—Fibringen Carboxy I raminal Fragment [II-sapiena], EST, Weakly similar to FIBC RAY FIRRINGCEN, MICHAEL STANDERS (FIRRING CARD), RICHAEL STANDERS (FIRRING CARD), RICHAEL STANDERS (FIRRING CARD), RICHAEL STANDERS (FIRRING CARD), GAMMA polypera (As) 2005. Richael Standers (FIRRING CARD), Gamma polypeptide, fibrinogen—like 1, flooin A, Ecolia (Firring Card).
1504	6478	NM 012559	bb	fibrinogen, gamma	[EST, Moderately similar to FGHUGB fibrinopen gamma-B chein precursor [H-sapiena], EST, Moderately similar t Recombinant Human Gamma-Flörinopen Carboxyl Terminal Fragment [H-sapiena], ESTA, Weakly similar to FIBG RAT FIBRINOGEN CARMAN-AS CARM PRECURSOR CARMAN PRECURSOR 1110007F23 genne, expressed sequence Al203526, florinopen, gamma polypopide, fibrinogen-like 1, flociol A, flociol 1
1505					follistatin, follistatin-like 3, follistatin- like 3 (secreted glycoprotein), transmembrane protein with EGF-like
1505	11731	NM_012561	k	follistatin group specific component,	and two follistatin-like domains 1
1507	1254	NM_012564	a	group-specific component (vitamin D binding protein) H1 histone family, member	
1508	16026	NM_012578	r	0	H1 histone family, member 0
1508	16024	NM_012578		H1 histone family, member	
1506	10024	NM_012578		H1 histone family, member	H1 histone family, member 0
1508	6025	NM_012578	r	10	H1 histone family, member 0
1509	16080	NM_012580	g.m	heme oxygenase (decycling) 1	heme oxygenase (decycling) 1
			bb	insulin-like growth factor	insulin-like growth factor binding protein 3, protease, serine, 11 (Igf binding)
1511 4	1450	NM_012592	bb	isovaleryl Coenzyme A dehydrogenase, isovaleryl coenzyme A dehydrogenase	RIKEN cDNA 130003009 gene, RIKEN cDNA 2310016C19 gene, acetyl-Cenczyme A dehydrogenase, short chain, isowaleryl Coenzyme A dehydrogenase, isovaleryl coenzyme A dehydrogenase
1511	451	NM_012592	i.bb	isovaleryl Coenzyme A dehydrogenase, isovaleryl coenzyme A	RIKEN cDNA 130003C09 gene, RIKEN cDNA 2310016C19 gene, acetyl-Coenzyme A dehydrogenase, short chain, isovaleryl Coenzyme A dehydrogenase, isovaleryl coenzyme A dehydrogenase

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800, ID Xo	Monthier	Gor Bark Accel Ref. Seq. 10 No.	Modfal Godle	Complex companies	Momologous Gluster Namo
1511	4452	NM_012592	bb	isovaleryl-Coenzyme A dehydrogenase, isovaleryl coenzyme A dehydrogenase	RIKEN cDNA 1300003009 gene, RIKEN cDNA 2310016C19 gene, acetyl-Coenzyme A dehydrogenase,
1512	17198	NM_012593	a,x	kallikrein 1, renal/pancreas/salivary, kallikrein 6	kallikrein 1, renal/pancreas/salivary, kallikrein 21, kallikrein 24, kallikrein 3 kallikrein 5
1512	17197	NM_012593	x	kallikrein 1, renal/pancreas/salivery, kallikrein 6	kallikrein 1, renal/pancreas/salivary, kallikrein 21, kallikrein 24, kallikrein 3 kallikrein 5
1513	18749	NM_012600	a.h	malic enzyme 1, NADP(+)- dependent, cytosolic, malic enzyme, supernatant	
1514	2628	NM_012603	General	myelocytomatosis oncogene, v-myc avian myelocytomatosis viral oncogene homolog myelocytomatosis	RIKEN cDNA 2900002K07 gene.
1514	2629	NM 012603	x,General	oncogene, v-myc evian myelocytomatosis viral oncogene homolog	myelocytomatosis oncogene, v-myc avian myelocytomatosis viral loncogene homolog
1515	16849	NM_012608	n,o,q	membrane metallo endopeptidase, membrane metallo-endopeptidase (neutral endopeptidase, enkephalinase, CALLA, CD10)	iendothelin converting enzyme-like 1, expressed sequence AW322500, me transforming oncogene-like 1, membrane metallo endopeptidase, membrane metallo-endopeptidase (neutral endopeptidase, enkephalinase, CALLA, CO10), membrane metallo-endopeptidase-like 22.
1517	15540	NM_012620	General	serine (or cysteine) proteinase inhibitor, clade E (nexin, plasminogen ectivator inhibitor type 1), member 1	serine (or cysteine) proteinase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 1
518	24568	NM_012630	General	prolactin receptor	cytokine receptor-like fector 1, interleukin 13 receptor, alpha 2, interleukin 5 receptor, alpha, prolactin receptor, prolactin receptor related sequence 1
518	24566	NM 012630	General	prolactin receptor	cytokine receptor-like factor 1, Interleukin 13 receptor, alpha 2, Interleukin 5 receptor, alpha, prolactin receptor, prolactin receptor related sequence 1
519	18553	NM_012631		prion protein, prion protein (p27-30) (Creutzfeld-Jakob disease, Gerstmann-	prion protein, prion protein (p27-30) (Creutzfeld-Jakob disease, Gerstman Strauster-Scheinker syndrome, fatal familial insomnia)
					ESTs, Highly similar to TPHUN1 protein-tyrosine-phosphalase [H.sapiens], protein tyrosine
		NM_012637	General		phosphatase, non-receptor type 1 expressed sequence D19352, renin, renin 1 structural, renin 2 tandem
522	18632		a		duplication of Ren1
					syndecan 4, syndecan 4 (amphiglycan ryudocan)

4 - 19		MUHOMOFOGNE	A STATE OF THE PARTY OF THE PAR		<ul> <li>Afr. Docket No. 44921-50307</li> <li>Doc. No. 179333</li> </ul>
800, 11 No.	e) Medili	Genbank Ac ter Roll, Sug. ID (	3.1 No. 1000011 Godin	Homologous Como Vanio	. Klamalogous Gluster Name
1525	24496	NM_012654	'n	solute carrier family 9 (sodiun/hydrogen exchanger), Isoform 3, solute carrier y (sodium/hydrogen exchanger), member 3	ESTs, Weakly simiter to NAH1 MOUSE SODIUM/YDROGEN EXCHANGER (I Musucialus), Hom sapiens mRNA; CDNA DIFFERS (I Musucialus), Hom sapiens mRNA; CDNA DIFFERS (I MUSUCIALUS), MORE (I
1526	7101	NM 012679	x.bb.General		DNA segment, Chr. 14, University of California at Los Angeles 3, EST, Moderately similar to A41386 clusteri precursor (H. sapiens), ESTs, Moderately similar to A41386 clusteri clusterin (complement yels inhibitor, SP-40,40, sulfated glycoprotein 2, testostarone-repressed prostate message 2, apolipoprotein J), expressed sequence Aligos757
					cytochrome P450, 2a12, cytochrome
1527	24707	NM 012693			P450, subfamily IIA (phenobarbital- inducible), polypeptide 13, cytochrom P450, subfamily IIA (phenobarbital- inducible), polypeptide 7, pseudogene 1, cytochrome P450, subfamily IIA (phenobarbital-inducible), polypeptide
1021	24707	14W 012055	1		7, pseudogene 2 EST, Weakly similar to KNG_MOUSE
528	1850	NM 012696	1.	kininogen	KININOGEN PRECURSOR [CONTAINS: BRADYKININ]
528	1854	NM_012696		kininogen	[M.musculus], kininogen EST, Weakly similer to KNG_MOUSE KININOGEN PRECURSOR [CONTAINS: BRADYKININ] ]{M.musculus], kininogen
529	1603	NM_012697	, General		EST. Weakly similar to CRCR MOSE ORGANIC CATIONICARNITION ORGANIC CATIONICARNITION TRANSPORTER 2 [M. musculus]. ESTS, Highly similar to COC2, HUMAY ORGANIC CATIONICARNITINE TRANSPORTER 2 [H. sapiens], solute carrier family 22 (organic cation transporter), member 1, solute carrier lamily 22 (organic cation transporter), member 100 (organic cation transporter), member 5, solute carrier family 22 (organic cation cation transporter).
			1	1	ESTs, Highly similar to HXK1 RAT HEXOKINASE, TYPE I [R.norvegicus]
530	1372	NM_012734	u	hexokinase 1	hexokinase 1, hypothetical protein FLJ22761
531	1478	NM 012744	.bb.General		expressed sequence C79630, methylcrotonoyl-Coenzyme A carboxylase 1 (alpha), pyruvate carboxylase, pyruvate decarboxylase

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TABLE	OL THUMAN	);OMOLOGUEA	Constitution and		Atty, Dodkot No. 6/1921-50 Dos. No. 179
939.ID No.	ldantillar	Gon Bon B Areal Roll, Goog, ID No.	Modal Godo	Younglegous Goro Namo	Hamologotus Gluster Name
1532					Signal transducer and activator transcription 1, signal transducer activator of transcription 1, signa transducer and activator of transcription 1, 91kD, signal transducer and activator of transcription 3, signal transducer activator of transcription 3 (acute
1532	343 18829	NM_012747 NM_012749	h,t General	<del></del>	phase response factor)
1534	20828	NM_012749	General	CD24 antigen (small cell lung carcinoma cluster 4 antigen), CD24a antigen	CD24 antigen (small cell lung carcinoma cluster 4 antigen), CI antigen
1534	20629	NM_012752	i,General	CD24 antigen (small cell lung carcinoma cluster 4 antigen), CD24a antigen CD24 antigen (small cell	CD24 antigen (small cell lung carcinoma cluster 4 antigen), CI antigen CD24 antigen (small cell lung
1534	20830	NM_012752	i,General	lung carcinoma cluster 4 antigen), CD24a antigen	carcinoma cluster 4 antigen), CD antigen ESTs, Highly similar to 1312358
1535	15174	NM_012756	b		III receptor [H.sapiens], expresse sequence Al661837, insulin-like growth factor 2 receptor EST, Weakly similar to ZF37 RA
					chromosome 19, BAC 273299 (c. 320G13), 40mo sapiens, clone MGC:23189 IMAGE:4854518, micompilete cds, RIKEN CDNA 2410081M15 gene, RIKEN CDNA 2810019F01 gene, RIKEN CDNA 28100119F01 gene, kitKen CDNA 2810011C24 gene, hypothetical protein FLJ12488, hypothetical zifinger protein MGC2959, zinc finger protein finger protein figure for finger protein finger finge
1536	18068	NM_012760	<u>i,m,n</u> .		homologous to Zfp37 in mouse CARD only protein, ESTs, Moder similar to A56084 Interdeuxin-1bed converting enzyme beta Isozyme [H-sapiens], ESTs, Weakly simila interleuxin-1 beta converting enzy gamma Isozyme [H-sapiens], Hot sapiens mRMA, CJNA OKFZp588 (from Clone DKFZp586A181); par cds, ICEBERG caspase 1 inhibite caspase 1, caspase 1, apoptosis- rotated cysteine probase (niterleu
1537	1246	NM_012762	a,General		1, beta, convertase) ESTs, Weakly similar to ANPA MOUSE ATRIAL NATRIURETIC PEPTIDE RECEPTOR A PRECURSOR (M.musculus), guanylate cyclase 1, soluble, beta guanylate cyclase 1, soluble, beta guanylate cyclase 1, soluble, beta natriuretic peptide receptor 1
1539	1348	NM 012776	1	adrenergic receptor kinase, beta 1, adrenergic, beta, receptor kinase 1	G protein-coupled receptor kinase groucho gene related (Drosophila; protein-coupled receptor kinase 5, protein-coupled receptor kinase 6, adrenergic, beta, receptor kinase rhodopsin kinase

		FOMOLOGUE!			Alty, Docket No. 44221-50393 Doc. No. 179333
Socialis No.	) Ideniita	GenBank Actal Rdf, Scop, Ilo No	Moda Codo	Homologous Cone Name	Mornologous Chatler Name
1540	18135	NM 012791		dual-specificity tyrosine-(Y, phosphorylation regulated finase 1A, dual-specificity fyrosine-(Y) fyrosine-(Y) finase-(S)	LESTS, Moderalely similar to DYNK RAT DUAL-SPECIFICITY TYROSIN (Y)PHOSPHCRYVATION (REGULATED NAMES [R: nonregious REGULATED
1541	16947	NM_012793	p,bb	guanidinoacetate N- methyltransferase, guanidinoacetate methyltransferase	GAMT_HUMAN GUANIDINOACETATE N- METHYLTRANSFERASE [H.sapiens] Homo sapiens, clone MGC:14390 IMAGE:4300887, mRNA, complete cds, guanidinoacetate N- methyltransferase, guanidinoecetate methyltransferase
1542	960	NM 012796	)   	glutathione S-Iransferase theta 2, glutathione S- Iransferase, theta 2	ESTs, Highly similar to GTT2 RAT GLUTATHIONE S-TRANSPERASE YRS-YRS (R. norvegicus), Homo sapiens mRNA; cDNA DKFZp762N22 (from clone DKFZp762N226), expressed sequence Al266894, glutathione S-transferase theta 2, glutathione S-transferase, theta 2, hypothetical protein
1543	. 260	NM_012798	1.0	mal, T-cell differentiation protein, myelin and lymphocyte protein; T-cell differentiation protein	BENE protein, Mus musculus, Similar to BENE protein, John MGC 19937 IMAGE:4205488, mRNA, complete cds, RIKEN CDNA 2700018NO 2900018NO sepressed sequence Al461853, mai, Tooli differentiation protein, mai, T-ceil differentiation protein, and improvyte protein; T-ceil differentiation protein.
				protein C, protein C (inactivator of coagulation	B-factor, properdin, DKFZP586H2123 protein, ESTs, Weakly similar to PRTC RAT VITAMIN-K DEPENDENT PROTEIN C PRECURSOR (R.norvegicus), protein C, protein C (inactivetor of coagulation factors Va
1544	556	NM_012803	d		and VIIIa) ATP-binding cassette, sub-family D (ALD), member 1, ATP-binding cassette, sub-family D (ALD), member 2, ATP-binding cassette, sub-family D (ALD), member 3, ESTs, Weakly similar to ABD3 RAT ATP-BINDING
545	21729	NM_012804	q	ATP-binding cassette, sub- family D (ALD), member 3	CASSETTE, SUB-FAMILY D, MEMBER 3 [R.norvegicus]
546	15032	NM_012816	General		alpha-methylacyl-CoA racemase, hypothetical protein FLJ11808 insulin-like growth factor binding
547	24895	NM_012817	General		protein 5

Property	C-1/mman				
		N HOWOTOGNEW	NNOTATIONS		Ally, Dockot No. 4/12/1-5039/// Doc. No. 1793397.
30G. (D 180.		Conforts Accul r Ref. Seq. 10 No.	Modal Godo	Mamalagous Cons Verno	democracios Chomo (Venu
1548	18109	NM_012823	u,General		EST, Weakly similar to ANXA_HUMAN ANNEXIN XI [H.sapiens], annexin A10, annexin A3
-54				ATP-binding cassette, sub family C (CFTR/MRP).	ATP-binding cassetie, sub-family C (CFTRAMRP), member 10, ATP-binding cassetie, sub-family C (CFTRAMRP), member 10, ATP-binding casseties, sub-family C (CFTRAMRP), member 13, ATP-binding casseties, sub-family C (CFTRAMRP), member 4, ATP-binding casseties, sub-family C (CFTRAMRP), member 4, ATP-binding casseties, sub-family C (CFTRAMRP), member 6, ATP-binding casseties casse
1549	373	NM_012833	h,i.g,General	member 2 cystatin B, cystatin B	expressed sequence Al132311
1550	2855	NM_012838	e	(stefin B)	cystatin B, cystatin B (stefin B), expressed sequence AA960480
1551	ž11136	NM 012839	5	cytochrome c, cytochrome c, somatic	ESTs, Highly similar to 630465A Orichcrime (FLaspiens), ESTs, Weathy similar to CYLHROME C, Weathy similar to CYLHROME C, SOMATTC (Mmuscubus), Home o- like protein, cione pHGC4E1, Human o- like protein, cione pHGC4E1, Human o- DNA sequence form clone RP11- 1980(17 on chromosome 13 Contains ESTs, GSSs, STS and four CpG Islands. Contains a novel protein beautiful contains a novel protein pone similar to TPTE encoding a transmembrane phosphatase with lensin homology and the ADPRTI. 1 gene encoding ADP-thospity phorymerase) like protein 1 (vaull protein, IRAD-; poly ADP-thosp) phymerase) like protein 1 (vaull protein, C, somatic: C, spochrome c, spochrome C, somatic: C, spochrome
552	20885	NM_012842	a	epidermal growth factor (beta-urogastrone)	EST, Moderately similar to EPIDERMAL GROWTH FACTOR PRECURSOR [M.musculus], ESTs, Moderately similar to EPIDERMAL GROWTH FACTOR PRECURSOR [M.musculus]. ESTs, Weakly similar to EST, Weakly similar to EST, Weakly similar to EST, Weakly similar to EST, Weakly similar to EST, Weakly similar to EST, Weakly similar to CST, Weakly similar to CST, Weakly similar to CST, Weakly similar to CST, Weakly similar to EST, Moderately similar to EST, Moderately similar to EPIDERMAL GROWTH FACTOR PRECURSOR MINISTRATE WEAKLY SIMILAR CONTRIBUTION OF THE CONTRIB
552	20884	INM 012842	a.bb	epidermal growth factor,	(M.musculus), ESTs, Weakly similar to EGRT epidemal growth factor procursor - rat [R.norvegicus], Homo sapiens mRNA; cDNA DKFZp434O0213 (from cione DKFZp434O0213) partial cds, ppddemal growth factor, epidermal growth factor (beta-urogastrone), indogen 2

TABLE	3 HUMAN	HOMOLOGUEA	NKOTATIOKS		( A.My. Poplet No. 49920-5099) Doe, No. 17999
309.ID 36	rtentifier	GonBook Ace/ Ref. Seq. (D.Ke.)	Model Gods	Manulogous Gare Name	
1553	18770	NM_012857	e	lysosomal membrane glycoprotein 1, lysosomal- associated membrane protein 1	CD68 antigen, ESTs, Weakly similar LMP1 RATLYSOSOME- ASSOCIATED MEMBRANE GLYCOPROTEIN 1 PRECURSOR IR. norvegics), lysosomal membran glycoprotein 1, lysosomal-associate membrane protein 1, similar to S884 (cattle) glucose induced gene
554	20674	NM_012861	i	O-6-methy/guanine-DNA methyltransferase, O-6- methylguanine-DNA methyltransferase	[ESTs, Highly similar to 1207298A reverse transcribuse related protein [14.aspiero], ESTs, Highly similar to S207298A reverse transcribuse related protein [14.aspiero], ESTs, Highly similar to S20.146 probable pol polygrution—(14.aspiero), and the similar to ChMSL retrovirus-related reverse transcriptation [14.aspiero], and the similar to ChMSL retrovirus-related reverse transcriptation [14.aspiero], homolog - mouse retrotransposon [M-muscuke, JETs, Weashy similar to S80407 Pryochebic protein [14.aspiero], Homo aspieros (DMA FLJ 1202 GF, Gone MAMMA 000006, Mus musculus, Smilar to 1.1 repost, Taudefamily, MAGE-347598, mRNA, complete cost, RIICHA CDMA 1700028M2 gam T Jymphoma oncogene, expressed soquence ALSO724, hypothetical protein FLZ1032, pheromene reception with TRI SAL PATYTEIN (MATRIX SLA POTYTEIN).
1555	13151	NM_012862	a,r,General	matrix Gla protein, matrix gamma-carboxyglutamate (gla) protein	PRECURSOR [H.sapiens], matrix Gi protein, matrix gamma- carboxyglutamate (gla) protein
556	24617	NM_012870	General )	tumor necrosis factor receptor superfamily, member 11b (osteoprotegerin)	Nerve growth factor receptor, fast, RIKEN cDNA 2610311809 gene, nerve growth factor receptor, nerve growth factor receptor (TNFR superfamily, member 16), tumor necrosis factor receptor superfamily, member 110 (casteoprotegenin), tumo necrosis factor receptor superfamily, member 210 member 220 member 230 member 210 member
557	20945	NM 012875	a.v		[EST, Moderately similar to 60S RIBOSOMAL PROTEIN L39 [R. norvegicus], ESTE, Highly similar 160S RIBOSOMAL PROTEIN L39 [R. norvegicus], ESTE, Highly similar 1602654 ribosomal protein L39 [H. sapiena], ESTE, Moderately similar to Go26544 ribosomal protein L39 [H. sapiena], EISTE, Moderately similar to Go26544 ribosomal protein L39 [H. sapiena], RIKEN cDNA 2810465016 gene, RIKEN cDNA 4930517K11 gene, Ribosomal protein L39-like 103, phosomal protein L39-like 103,

				-275-	
TABLE	e: hannat	I (OTTOTO GOTE VA	MOJAHONS	Wild Greek	Any, Docket No. 44921-53900 Doc. No. 179331
Seq. (D Vo.	identifiar	GorBards Accul Rafl Sag. 10 No.	Model Gods	Homologous Gare Name	Homologous Obster Namo
1558	15872	NM_012879	o	solute carrier family 2 (facilitated glucose transporter), member 2 superoxide dismutase 3.	ESTs, Highty similar to A31318 gloucose transporter-like protein to GLUCOSE TRANSPORTER TYPE 2 (LUCRE TRANSPORTER TYPE 2 (LUCRE TRANSPORTER TYPE 2 (LUCRE TRANSPORTER TYPE 2 (LUCRE TRANSPORTER TYPE 2 (LUCRE TRANSPORTER TYPE 2 (LUCRE TRANSPORTER TYPE 2 (LUCRE TRANSPORTER TRANSPORTER TYPE 2 (LUCRE TRANSPORTER TRANSPORTE
1559	495	NM_012880	z	extracellular	superoxide dismutase 3, extracellular
1559	494	NM 012880	c	superoxide dismutase 3, extracellular	RIKEN cDNA 1700105P06 gene, superoxide dismutase 3, extracellular
1560	23651	NM 012881	d.u.General	secreted phosphoprotein 1 secreted phosphoprotein 1 (osteopontin, bone sialoprotein I, early T- lymphocyte activation 1)	gaperane viennidae 3, extracesular
1562	19477	NM_012891	q	1	
1563	18564	NM 012899	v.General	aminolevulinate, delta-, dehydratase	aminolevulinate, delta-, dehydratase
1564 1564	7197	NM_012904	f,r,cc,General	amexin A1	EST, Weakly similar to A Chain A, Nn Solution Structure Of Domein 1 Of Human Annexin I (SUB 41-113 (H. sapiens), annexin A1
1565	20202	NM_012909	b,r	aquaporin 2, aquaporin 2 (collecting duct)	equaporin 2, aquaporin 2 (collecting duct), aquaporin 6, aquaporin 6, kidney specific
1566	16581	NM_012911	c,j		Mus musculus retinal cone arrestin 3 (Arr3) mRNA, complete cds, RIKEN CDNA 1200006117 gene, errestin, bet 2, expressed sequence Al326910, retinal S-antigen
1566	16582	NM_012911	c		Mus musculus retinal cone arrestin 3 (Arr3) mRNA, complete cds, RIKEN CDNA 1200006117 gene, arrestin, beta 2, expressed sequence Al326910, retinal S-antigen
1567	24431	NM_012912 .	General	activating transcription factor 3	ESTs, Highly similar to 1604249C transcription factor ATF3 ItA sapiens], ESTs, Weakly similar to ATF3 RAT CYCLIC-AMP-DEPENDENT TRANSCRIPTION FACTOR ATF-3 (R.norvegicus), Jud dimerization protein 2, activating transcription facto 3, basic leucine zipper transcription factor, ATF-8ita.
1568	18118	NM_012913	P	ATPase, Na+/K+ transporting, beta 3 polypeptide	ATPase, Na+/K+ transporting, beta 3 polypeptide, ESTs, Highly similar to 602485 Na+/K+-exchanging ATPase [H.sapiens], expressed sequence Al664000
1569	6108	NM_012915	n		ATPase inhibitor, ATPase inhibitor precursor, ESTS, Moderately similar to ATPASE INHIBITOR, MITOCHONDRIAL PRECURSOR (R.norvegicus), Mus musculus 10 days embryo cDNA, RIKEN full-length enriched library, clone:2610204M17, full insert sequenco

TABLE	a: human	HOMOROGAE VI	SKIOTATOKS		ATLY: Electrot No. 61927-50897 Pos. No. 179889
Sog. ID No.		Configures Assessing Real Story, ID No.		Komologous Guro Kamo	Homologicus Olyster Namo
1570	20757	NM_012923	c,i,aa	cyclin G, cyclin G1	cyclin G, cyclin G1, cyclin G2, cyclin
1570	20755	NM_012923	i	cyclin G, cyclin G1	cyclin G, cyclin G1, cyclin G2, cyclin
1571	2830	NM_012925	ſ	CD59 antigen p18-20 (antigen identified by monocional antibodies 16.3A5, EJ16, EJ30, EL32 and G344), CD59a antiger	CD59 antigen p18-20 (antigen identified by monoclonal antibodies 16.3A5, EJ16, EJ30, EL32 and G34-CD59a antigen, ESTs, Weakly simila to CD59 RAT CD59 GLYCOPROTEI PRECURSOR (R.norvegicus)
1571	2831	NM 012925	1	CD59 antigen p18-20 (antigen identified by monoclonal antibodies 16.3A5, EJ16, EJ30, EL32 and G344), CD59a antigen	CD59 antigen p18-20 (antigen identified by monoclonal antibodies 16.3A5, EJ16, EJ30, EL32 and G344 CD59a antigen, ESTs, Weakly similar to CD59 RAT CD59 GLYCOPROTEI PRECURSOR (R.norvegicus)
1572	1977	NM_012930	q	carnitine palmitoyltransferase 2, carnitine palmitoyltransferase II	EST, Moderately similar to CPT2 RA' CARNITINE O. PALMITOVLTRANSFERASE II, MITOCHONDRIAL PRECURSOR [R.novegleus], camitine palmitoytransferase I, expressed sequence Al323697 LOZ-associated protein, HEF like
1573	18694	NM_012931	jJ.m.z		Protein, Homo sapiens cDNA Protein, Homo sapiens cDNA Protein, Homo sapiens cDNA proteins cancer anii-estrogen resistanc 1, enhancer of filamentation 1 (cas-life docking; Cft-associated substrate related), neural precursor cell expressed, developmentally down- regulated gene 9, v-cft-associated (tyrosine kinase substrate
1574	13723	NM_012935	n .	crystallin, alpha B	
1575 1575	9109 19398		. <u>.y.z</u> aa	cathepsin H	ESTs, Highly similar to KHHUH cathepain H, Rapiens], ESTs, Weakly similar to CATHEPSIN H PRECURSOR [R.novegicus], Homo sapiens cDNA: FLU2549 fis, clone HRC11250, highly similar to HSCATHH Human mRNA for cathepsin H (EC 3.4.22.16), cathepsin H, cathepsin W (lymphopain)
				diphtheria toxin receptor	
1576	223	NM_012945		(heparin-binding epidermat growth factor-like growth factor), heparin binding epidermal growth factor- like growth factor	diphtheria toxin receptor (heparin- binding epidermal growth factor-like growth factor), expressed sequence AW047313, heparin binding epiderma growth factor-like growth factor
577	15058	NM_012950 ;		coagulation factor (I	ESTs, Weakly similar to GPRY_MOUSE PROBABLE G PROTEIN-COUPLED RECEPTOR GPR34 [M.musculus], G protein- coupled receptor 41, G protein- coupled receptor 43, Rattus norvegicus protease activated receptor 3 mRNA, complete cds, coagulation factor II (thrombin) receptor factor II (thrombin) receptor.

DABLE	e guma	1HOWOTOGNE	ANNOTATIONS		Atty, Poekat No. 44921-5039 Dog, No. 17939
90g, ID No.	n de a tille	Genflank Ace Ref. Seq. ID N	// o. Model Gods	Homologous Gane Mano	Howiderous Charge Mann
1579	19111	NM 012963		high mobility group box 1, high-mobility group (monitation extraorascomal)	EST, Moderately similar to A Chain Crystal Structure Of Hings 1 Domain Sound To A Clapiath - Modified Dna Joupher (Ron-orgal). EST, Weak at Similar to A Chain A, Crystal Structure Of Hings 1 Domain A Bound To A Chain A Bound To A Chain A Bound To A Chain A Bound To A Chain A Bound To A Chain A Bound To A Chain A Bound To A Chain A Bound To A Chain Bound To A Chain Bound To A Chain A Bound To A Chain Bound To A
15/9	119111	INM_012963	9	protein 1	like 3 Mus musculus 12 days embryo mal-
1580	19374	NM_012964	×	hyeluronan medieted motility receptor (RHAMM), hyaluronan-mediated motility receptor (RHAMM)	wolffien duct includes surrounding region cDNA, RIKEN full-length enriched library, clone;6720466F14, full insert sequence, RIKEN cDNA, 0810027D24 gene, TRAF4 associat factor 1, hyeluronen mediated morteceptor (RHAMM), hyaluronan-mediated motility receptor (RHAMM) Homo sapiens mRNA; cDNA
1581	2554	NM_012967	ļ.	intercellular adhesion molecule, intercellular adhesion molecule 1 (CD54), human rhinovirus receptor	DKFZp434E0516 (from clone DKFZp434E0516), intercellular adhesion molecule, intercellular adhesion molecule 1 (CD54), humar rhinovirus receptor, intercellular adhesion molecule 3, intercellular adhesion molecule 3, telencephalin
1581	2555	NM_012967	.t,cc,General	intercellular adhesion molecule, intercellular adhesion molecule 1 (CD54), human rhinovirus receptor	Homo sapiens mRNA; cDNA DKF2p43460516 (from clone DKF2p43460516), intercellular edhesion molecule, intercellular adhesion molecule 1 (CDSA), humar rhinovirus receptor, intercellular edhesion molecule 3, intercellular adhesion molecule 5, ietencephalin
1582	24528	NM_012973	c	potassium vollage-gated channel, Isk-related family, member 1, potassium vollage-gated channel, Isk- related subfamily, member 1	potassium voltage-gated channel, Isi related family, member 1, potassium voltage-gated channel, Isk-related subfamily, member 1
. 1583	956	NM_012976			ESTs. Highly similar to LEGS RAT GALECTIN-9 (R. nove)cius]. ESTs, Highly similar to LEG9, HUMAN GALECTIN-9 (H. sapiens), ESTs, Weakly similar to LEG9 RAT GALECTIN-9 (R. nove)cius), expressed sequence AI265545, lectin, galactose binding, soluble 12, lectin, galactose binding, soluble 12, lectin, galactoside-binding, soluble, 9 (galactoside-binding, soluble, 9 (galactoside-binding, soluble, 9
	16417	NM 012991	1	nucleoporin 50kD,	nucleoporin 50kD, nucleoprotein 50

TABLE	ANNUUHI SS	HOWOLOGNE'	RICHTATIONS:	100 May 100 May 100 May 100 May 100 May 100 May 100 May 100 May 100 May 100 May 100 May 100 May 100 May 100 Ma	ATP/ Docket No. 4/4921-8/1997 Doc. No. 17/9349
Seg. (1) No.		Gordent: Ace./ Raf. Seq. (10 No		Hamologous Gara Name	Homotomus Guster Namo
1585	17393	NM_012992	d	nucleophosmin (nucleolar phosphoprotein B23, numatrin), nucleophosmin	ESTs, Moderately similar to NPM, HUMAN NUCLEOPHOSMIN [H.sapina], ESTs, Weakly similar to NPM, HUMAN NUCLEOPHOSMIN [H.sapina], nucleophosmin (nucleophosphoprotein B23, numatrin), nucleophosmin 1, nucleophosmin 13, nucleophosmin 3, nucleophosmin 3, nucleophosmin 3.
1586	23544	NM 013013	s	, prosaposin, prosaposin (variant Gaucher disease and variant metachromatic leukodystrophy)	ESTs, Weakly similar to 1504251A sphingolipid activator [H.sapiens], RIKEN CDNA 2310020A21 gene, prosaposin, prosaposin (variant Gaucher disease and variant metachromatic (eukodystrophy)
1587	1588	NM_013026	k	syndecan 1	syndecan 1
1588	17894	NM_013027	m	selenoprotein W, 1, selenoprotein W, muscle 1	ESTs, Weakly similar to SELW MOUSE SELENOPROTEIN W [M.musculus], selenoprotein W, 1, selenoprotein W, muscle 1
1589	18300	NM_013030	s.v.General		ESTA, Weakly similar to NPT2 RAT RENAL SODIUM-DEPENDENT PROTEINAS PROFESSA STANDARD RENAL SODIUM-DEPENDENT FROM SETS (Neakly similar to NPT2, HUMAN RENAL SODIUM-DEPENDENT FROSPHATE TRANSPORT PROTEIN 2   Haspient Humo sapiens, Similar to sobite carrier family 34 (sodium phosphate), memb (1, me) AMCC 41532 (radium) (ra
					ESTS, Weakly similar to NPT2 RAT RENAL SOLUM-DEPENDENT PROSEPHENDENT PROTEIN PROSEPHENDENT PROTEIN PROSEPHENDENT PROTEIN PROSEPHENDENT PROTEIN WEAKLY STATEMENT PROTEIN PROSEPHENDENT PROSEPHENDENT PROSEPHENDENT PROSEPHENDENT PROSEPHENDENT PROSEPHENDENT PROSEPHENDENT PROMEINS (A 1952 A 1952

TABLE	HUMAN	HONOLOGUEAI	RICHARIONS		Ally, Cocket No. 44924 -503900 Coc. No. 1793900					
	Identifier	Confidents Accel Rate Son, 10-Ma.		Hemologous Gano Name	Homologous Cheter Name					
1589	18078	NM 013030		solute carrier family 34 (coollum phosphate), member 1	ESTA, Wesley similar to NPT2 RAT RENAL SOUDLANGEPROPENT RENAL SOUDLANGEPROPENT RENAL SOUDLANGER WESLEY WESLEY STATE OF THE RENAL SOUDLANGER WESLEY WE					
1589	18077	NM 013030	9.5.2	solute carrier family 34 (sodium phosphate), member 1	ESTS, Weastly similar to NPT2 RAT REPMA, SCOULD-OFFENDENT PROTEIN PROSPINATE TRANSPORT PROTEIN 10 NPT2, HAMM REPMA SOOTIME DEPENDENT PROSPINATE HOROSPINATE STANSPORT PROFILE (2) Issapers, Homo salpiers, Similar to solute carrier TRANSPORT PROFILE (2) Issapers, HOMO salpiers, Similar to solute carrier TRANSPORT PROFILE (2) Issapers, MRNA, complete os, Ratius MRNA, 1591	730	NM_013040	w	ATP-binding cassette, sub- family C (CFTR/MRP), member 9	ATP-binding cassette, sub-family C (CFTR/MP), member 9, ATP-binding cassette, sub-family C (CFTR/MP), member 9, EST-1, Kighly similar A ACCB (MAN SULFON/LUREA MCCBPTON I) 1, supland, LST-1, MCCBPTON I) 1, supland, LST-1, receptor 2, isoform B - nouse (Manusculus, Mus musculus adult male pitulary gland cDNA, RIKEN full- length enriched library, clone.53043B114, full insert sequence
1592	17401	NM_013043	i,o,General	transforming growth factor beta 1 induced transcript 4, transforming growth factor beta-stimulated protein TSC-22	ESTs, Moderately similar to DIP_HUMAN DIP PROTEIN [H.saplens, delta sleep inducing peptide, immunoreactor, glucocorticoid- induced leucine zipper, transforming growth factor beta i induced transcript 4, transforming growth factor beta- stimulated_protein TSC-22					
1593	16684	NM_013052	General	tyrosine 3- monooxygenase/tryptopha n 5-monooxygenase activation protein, eta polypeptide	3-monoxygenase/tryptophan 5- monoxygenase activation protein, gamma polypeptide, tyrosine 3- monoxygenase/tryptophan 5- monoxygenase activation protein, eta polypeptide					

TABLE	S: HUMAN	HOMOLOGAEV	NNOTATIONS		Ally, Docker No. 43921-50300 Pos. No. 1791811
30g. 10 Mo.		Conflorats Account Real Secq. (10 No.		Mamalogous Gana Nama	Monologeus Cheter Namo
					RIKEN cDNA 2700028P07 gene. tyrosine 3-monoxygenase/tryptopha 5-monoxygenase activation protein,
1594	14421	NM_013053	u		inhibitor of DNA binding 3, inhibitor of DNA binding 3, dominant negative
1595	15254	NM_013058	k		helix-loop-helix protein alkaline phosphalase,
1596	14997	NM_013059	s,z		liver/bone/kidney alkaline phosphatase,
1596 1597	14996 25676	NM_013059 NM_013069	General		liver/bone/kidney
1597	16924	NM 013069	0		CD74 antigen (invariant polypeptide or major histocompatibility complex, clas II antigen-associated), la-associated invariant chain, (IAA0275 gene product, sparc/osteonectin, cwcv and kazal-like domains proteoglycan (testican), sparc/osteonectin, cwc van kazal-like domains proteoglycan 1, sparc/osteonectin, cwc van dkazal-like domains proteoglycan 2
1598	24748	NM_013070	h,q	utrophin, utrophin (homologous to dystrophin	Oyatrophin, dystrophin (muscular dystrophy, Duchenne and Becker lypes), includes DXS142, DXS164, DXS266, DXS206, DXS207, DXS226, DXS206, DXS207, DXS226, DXS206, DXS207, DXS272, dystrophin, muscular dystrophy, dystrophin-related protein 2 A-form spice variant, utrophin, utrophin (homologous to dystrophin) in
1599	1529	NM_013082	d,General		syndecan 2, syndecan 2 (heparan sulfate proteoglycan 1, cell surface- associated, fibroglycan)
1600	1521	NM 013091	i.l.z.General	·	lumor necrosis factor receptor superfamily, member 12, tumor necrosis factor receptor superfamily, member 12 (transaceating chein- association membrane protein), tumor necrosis factor receptor superfamily, member 14, tumor necrosis factor receptor superfamily, member 1a, tumor necrosis factor receptor superfamily, member 1a, tumor necrosis factor receptor superfamily, nember 1, tumor necrosis factor receptor superfamily, member 1-ailes 1, tumor necrosis factor receptor superfamily, member 1-ailes 1, tumor necrosis factor receptor superfamily, member 1-ailes 1, tumor necrosis factor receptor superfamily, member 1-ailes 1, tumor necrosis factor receptor superfamily, member 1-ailes 1, tumor necrosis factor receptor superfamily, member 1-ailes 1, tumor necrosis factor receptor superfamily, member 1-ailes 1, tumor necrosis factor receptor superfamily, member 1-ailes 1, tumor necrosis factor receptor superfamily, member 1-ailes 1, tumor necrosis factor receptor superfamily, member 1-ailes 1, tumor necrosis factor receptor superfamily, member 1-ailes 1, tumor necrosis factor receptor superfamily, member 1-ailes 1, tumor necrosis factor receptor superfamily, member 1-ailes 1, tumor necrosis factor receptor superfamily, member 1-ailes 1, tumor necrosis factor receptor superfamily, member 1-ailes 1, tumor necrosis factor receptor superfamily, member 1-ailes 1, tumor necrosis factor receptor superfamily, member 1-ailes 1, tumor necrosis factor receptor superfamily, member 1-ailes 1, tumor necrosis factor receptor superfamily, member 1-ailes 1, tumor superfamily, m
000	1321	14111_013091		hemoglobin alpha, adult	
1601	1685		c,aa	chain 2, hemoglobin, alpha 1	
601			c,i	hemoglobin alpha, adult chain 2, hemoglobin, alpha	
601		NM_013096			EST, Moderately similar to HART1 hemoglobin alpha-1 chain - rat (R.norvegicus), ESTs, Moderately similar to HART1 hemoglobin alpha-1 chain - rat [R.norvegicus], RIKEM (DNA 2510042112 gene, hemoglobin alpha a, dutt chain 1, hemoglobin alpha 1, hemoglobin, alpha 2

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		HOWOTo@n≅∜			Ally, Doctot No. 44921-49399 Doc, No. 179839
Seq. ID Ro	identifica	GenBank Acc / Rof Seq. ID No.	Model Code	Hamalagous Garo Namo	Homologous Cluster Name
1601	1684	NM 013096	.c.s.aa	hemoglobin alpha, adult chain 2, hemoglobin, alpha	EST, Moderately similar to HART1 hemoglobin alpha-1 chain - rat (R.norvegicus), ESTs, Moderately similar to HART1 hemoglobin alpha- chain - rat [R.norvegicus], RIKEN CDNA 2510042H12 gene, hemoglobi
1602	20886	NM_013097	dd,x,u		COT W. II
1602	20887	NM_013097	dd,x,u		IESTs, Weakly similar to DRN1 RAT DEOXYRIBONUCLEASE   PRECURSOR [R.norvegicus], Mus imusculus DNasel precursor mRNA, complete cds, RIKEn CDNA 4733401H14 gene, deoxyribonucleas   1, axpressed sequence Al78865   ESTs, Weakly similar to G6PT RAT
1603	1321	NM_013098	c		GLUCOSE-G-PHOSPHATASE [Ronovegicus], Homo saplens, cione IMAGE:3050476, mRNA, partiel cds. IRICEN CDNA 07 100011601 gende, expressed sequence ANV456387, glucose-6-Phosphatase, catalytic, glucose-6-Phosphatase, catalytic, oliteria disease), glucose-6- phosphatase, catalytic, related sequence, islot-specific glucose-6- phosphatase catalytic subunit-related protein
1604	15296	NM_013102	l,m	FK506 binding protein 1a (12 kDa), FK506-binding protein 1A (12kD)	ESTs, Moderately similar to 1613455. FKS06 binding protein FKBP (H.sapiens), FKS06 binding protein 18 (12 kDa), FKS06 binding protein 10 (12.6 kDa), FKS06 binding protein 2 (13 kDa), FKS06 binding protein 4 (58 kDa), FKS06-binding protein 14 (15k kDa), FKS06-binding protein 14 (15k
1606	23709	NM 013113	o,s,z,aa		ATPase, Na+/K+ transporting, beta 1 polypeptide
1606	23711		0		ATPase, Na+/K+ transporting, beta 1
1606	23710	NM_013113		·	polypeptide ATPase, Na+/K+ transporting, beta 1
1607	1976	NM_013113 NM_013118	u		polypeptide guanylate cyclase activator 1B (retina guanylate cyclase activator 2 (guanyli z, intestinal, heatstable), guanylate cyclase activator 2A (guanylin)
1609	870	NM 013130	h		MAD (mothers against decapentaplegic, Drosophila) homolog 1, MAD (mothers against decapentaplegic, Drosophila) homolog 5, MAD (mothers against decapentaplegic, Drosophila) homolog q
1610	16650	NM_013132	u,General ;		annexin A5
1611	650	NM_013134	h		3-hydroxy-3-methylglutaryl-Coenzyme A reductase, ESTs, Moderately similar to hydroxymethylglutaryl-CoA reductase [M.musculus], SREBP CLEAVAGE-ACTIVATING PROTEIN

TABLE	or homan	HOMOTOGAEVI	BUOTATIONS		ANys Dookse (No. 4:1224 - \$111) W Book No. 17:1997
809.ID No.	Manifilat	Contents Ace/ Ref. Soq. 10 No.	Model Gode	Monrologous Gano Namo	
1611	651	NM_013134	hjl		3-hydroxy-3-methylglutaryl-Coenzyme A reductase, ESTs, Moderately simila to hydroxymethylglutaryl-CoA reductase [M.musculus], SREBP CLEAVAGE-ACTIVATING PROTEIN
1612	1712	NM_013138	General	inositol 1,4,5-triphosphate receptor 3, inositol 1,4,5- triphosphate receptor, type 3	ESTs. Moderately similar to INOSITO 1.4,5-TRISPHOSPHATE-BINDING PROTEIN TYPE 1 RECEPTOR [M.musculus], Mus musculus, Similar to Purkinje cell protein 1, clone MGC:11943 IMAGE:3600031, mRNA, complete cds, RIKEN CDNA 9330127120 gene, Inositol 1,4,5- triphosphate receptor 2, inositol 1,4,5- triphosphate receptor 2, inositol 1,4,5- triphosphate receptor 2, inositol 1,4,5-
1613	16982	NM_013144	o,v,General		protein 1, protease, serine, 11 (IGF binding)
1614	21683	NM_013154	t,cc,General	CCAAT/enhancer binding protein (C/EBP), delta CCAAT/enhancer binding	CCAAT/enhancer binding protein (C/EBP), delta
1614	21682	NM_013154 .	сс	protein (C/EBP), delta	CCAAT/enhancer binding protein (C/EBP), delta ESTs, Weakly similar to CATHEPSIN
					L PRECURSOR [M.musculus], RIKEN CDNA 2310051M13 gene, RIKEN CDNA 4930466L24 gene, cathepsin 7, cathepsin F, cathepsin L, cathepsin
1615 1615	3431 25567	NM_013156 NM_013156	b,g,n v.General	cathepsin L	L2, cathepsin O
1615	3430	NM_013156	General	. cathepsin L	ESTs, Weakly similar to CATHEPSIN L PRECURSOR [M.musculus], RIKEN CDNA 2310051M13 gene, RIKEN CDNA 4930486L24 gene, cathepsin 7, cathepsin F, cathepsin L2, cathepsin DNA 4833415K22 gene,
1616	1309	NM_013159	w		expressed sequence AA675336, insulin degrading enzyme, insulin- degrading enzyme
1616	1310	NM 013159	w		RIKEN cDNA 4833415K22 gene, expressed sequence AA675336, insulin degrading enzyme, Insulin-
					degrading enzyme TGF beta 2 protein, transforming growth factor, beta 2, transforming
,	21723	NM_013174	w		growth factor, beta 3 EST, Moderately similar to CAMP- DEPENDENT PROTEIN KINASE TYPE I-ALPHA REGULATORY CHAIN (R.norvegicus), protein kinase, cAMP dependent regulatory, type 1, alpha, protein kinase, cAMP dependent regulatory, type I beta, protein kinase, cAMP-dependent, regulatory, type I,
1618	1314	NM_013181	m		alpha (tissue specific extinguisher 1) expressed sequence C87576, meprin
1619	17357	NM_013183	p,bb,General	beta	1 beta, meprin A, beta Mus musculus adult male stomach cDNA, RIKEN full-length enriched ilbrary, clone.2210403E17, full insert sequence, expressed sequence AA407869, phosphofructokinase, liver, phosphofructokinase, liver,
1620	1300	NM_013190	y		phosphofructokinase, muscle

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Seq.(ID) No		Conformational Roll Scop ID No.	20cdal Gods	Homologous Gano Namo	Homologicus Cluster Name
1621	16448	NM_013197	с		EST, Highly similar to HEMO RAT 5- AMINOLEVULING ACID SYNTHASE ERYTHROID-SPECIFIC, MITOCHONDRIA, PRECURSOR (IR, novegicus), ESTA, Highly similar to SYHUES 5-anicolevulinate synthase (1st applies), animotevulinate, orbita- yorhease 2 (see decisiothy)-podoma- yorhease 2 (see decisiothy)-podoma- yorhease 2 (see decisiothy)-podoma- quirosid, bydroic cacoptimas (acid 4, eminolevulinic acid synthase 2, entytroid, gybrice Cacoptimasferse 2 (amino-3-velobulyrate coenzyme A lugaes), gybrios - cacoptimasferse 2 amino-3-velobulyrate coenzyme A lugaes)
1622	20856	NM 013200 NM 013214	b	camitine palmitoytransferase 1, muscle, camitine palmitoytransferase I, muscle	ESTs. Moderately, similar to CPTM RAT CARNITHE O. PALMITOYLTRANSPERASE I, MITOCHONDRIAL MUSCLE ISOFORM (R. nonegicus), ESTs. Weakly, similar to CPT1 MOUSE CARNITHEE O. CARNITHEE O. CARNITHEE O. MASPERASE I, MITOCHONDRIAL LIVER ISOFORM [M. musculus], camilito paimitolytransferase 1, liver, camitine paimitolytransferase 1, muscle, carmitine paimitolytransferase 1, muscle, carmitine paimitolytransferase 1, muscle
			'		ESTS, Highly smiller to ARTZ, HUMAN AFLATONIN BI ALDEHYOE AFLATONIN BI ALDEHYOE REDUCTASE 1 (A/FB1-AR 1) (ALDOKEYOERDEUTASE 7) [I1-1.5] bit ALTOXIN BI ALT
1624		NM_013215	<u>g.n.y</u>		AS deflation adelhyde neduciase)  EST 4, Moderally pinites or 103986 serine/threorine protein kinase NIK - mouse (Kinasculei), Most muscului, Smilles to zinc finger protein 347, done Misc 18913 MMsC4242025, mRNA, complete cds, RIKCN cDNA 000031417 gene, miliogen-activated protein kinase kinase kinase kinase sinase 4, miliogen-activated protein kinase
		NM_013222		growth factor, erv1 (S. cerevisiae)-like (augmenter of liver regeneration)	binding protein 4 ESTs, Highly similar to ALR RAT AUGMENTER OF LIVER REGENERATION [R.norvegicus], growth factor, erv1 (S. cerevisiae)-like (augmenter of liver regeneration)

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3004,10 No.	dentifier	ConBank Acc./ Ref. Seq. (DNo.	Modbl@ode		Homologova Gluater Mamo
1627	815	NM_013224	w		ESTe, Highly similar to RS26_HUMAN 40S RIBOSOMAL PROTEIN 326 [H sapiens], Homo sapiens, clone IIMAGE:4100953, mRNA, Human On sequence from PAC 384021 on chromosome X contains ribosomal protein 326 pseudogene, ST, polymerase (RNA) II (DNA directed) obyleptitle O, ribosomal protein S26
1628	18305	NM_013226	٧		
1629	21078	NM_016986	d	acetyl-Coenzyme A dehydrogenase, medium chain, acyl-Coenzyme A dehydrogenase, C-4 to C- 12 straight chain	chain, expressed sequence Al987948
1630 :	24649 .	NM_016988	v	ecid phosphatase 2, lysosomal	ESTs, Weakly similar to PPAL RAT LYSOSOMAL ACID PHOSPHATASE PRECURSOR [R.norvegicus], acid phosphatase 2, lysosomal, acid phosphatase 6, lysophosphatidic, acid phosphatase, prostate, acid phosphatase, lesticular
1631 1	15239	NM_016989	q,w		EST, Weakly similar to RL15 RAT 60S RIBOSOMAL PROTEIN L15 [R.norvegicus], ESTs, Highly similar RL15, HUMAN 60S RIBOSOMML PROTEIN L15 [H.saplens], ESTs, Moderately similar to RL15 RAT 60S RIBOSOMAL, PROTEIN L15 [R.norvegicus], RIKEN CDNA 251008H07 gene, ribosomal protein L15
				calcium-sensing receptor, calcium-sensing receptor (hypocaclicum) hypocaclicum) enconatal	EST, Washly similar to  STATRACELLULAT OLICIUM- SENSING ALTO ALCIUM- SENSING REST, Washly smilar  IRANORGIA, ISTA, Washly smilar  IRANORGIA, ISTA, Washly smilar  IO CASR, HUMAN EXTRACELLULAR  CALCIUM-SENSING RECEPTOR  PRECURSOR [H.sapiena], ESTe,  Weskly similar to D/T460 melaborropic  glutamete receptor subtype 3  precursor - mouse [M.musculus], G  protein coupled receptor, family C,  group 1, member A C protein coupled  group 1, member A C protein coupled  calcium-sensing receptor  (hypocalciumic hypercalcomia 1, sewere  neonstal hyperparathyroidism),  vomenonsel 2, receptor, 11,
1632	45	NM_016996	General	hyperparathyroidism)	vomeronasal 2, receptor, 12
633	20714	NM 016999		1, cytochrome P450,	Mus musculus, Similar to cytochrome P450, 4a10, clone MGC:25972 IMAGE:4240359, mRNA, complete cds, RIKEN cDNA A230105L22 gene, cytochrome P450, 4a10, cytochrome P450, 4a14, cytochrome P450, subfamily IVA, polypeptide 11

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Cook fin		NHOMOLOGUEA	XNOTATIONS		Ally: Docket No. 49924-6039 Doc. No. 17933
300	dendiffer	Gen Bends Aced Tell Sequilib No.	Model Gode	Homologous Gene + Name	Homologous Gluster Name
1633	20713	NM_016999	ı	cytochrome P450, subfamily IV 8, polypeptide 1, cytochrome P450, subfamily IVB, polypeptide	cytochrome P450, 4a10, cytochrom P450, 4a14, cytochrome P450, subfamily IVA, polypeptide 11
1633	20711	NM_016999	şq,t	cytochrome P450, subfamily IV B, polypeptide 1, cytochrome P450, subfamily IVB, polypeptide	Mus musculus, Similar to cytochror P450, 4a 10, clone MGC:25972 IMAGE:4240359, mRNA, complete cds, RIKEN cDNA A230105L22 ger cytochrome P450, 4a10, cytochrom
1633	20715	NM_016999	q,t	cytochrome P450, subfamily IV B, polypeptide 1, cytochrome P450, subfamily IVB, polypeptide	Mus musculus, Similar to cytochron P450, 4a10, clone MGC:25972 IMAGE:24240359, mRNA, complete eds, RIKEN cDNA A230105L22 ger cytochrome P450, 4a10, cytochrom P450, 4a14, cytochrome P450, subfamily IVA, polypeptide 11
1634	1698	NM_017000	e,n,p,General	diaphorase (INADH/NADPH) (cytochrome b-5 reductase), diaphorase 4 (INADH/NADPH)	IESTs., Weakly similar to DHQU RAI NAD(P)H DEHYOROGENASE [R.norvegicus], NAD(P)H menedion oxidoreductase 2, dioxin inducible, NAD(P)H menadione oxidoreductas 2, dioxin-inducible, diaphorase (NADH/NADPH) (cytochrome b-5 reductase), diaphorase 4 (NADH/NADE)
1635	1399	NM_017006	h,n,General	glucose-6-phosphate dehydrogenase, glucose-6- phosphate dehydrogenase X-linked	glucose-6-phosphate dehydrogenas glucose-6-phosphate dehydrogenas 2, glucose-6-phosphate dehydrogenase X-linked, hexose-6- phosphate dehydrogenase (glucose dehydrogenese)
1637	18989			glutathione S-transferase A2, glutathione S-	glutathione S-transferase A2, glutathione S-transferase, elpha 2
1638	21013		n e.f		(YC2) ESTs, Moderately similar to GLUTATHIONE S-TRANSFERASE YB1 [R.norvegicus], glutathione S- transferase M1, glutathione S- transferase, mu 1
1638			e,General	glutathione S-transferase M2 (muscle), glutathione S-	ESTs, Moderately similar to GLUTATHIONE S-TRANSFERASE YB1 [R.norvegicus], glutathione S- transferase M1, glutathione S-
639		NM 017023	च, <b>उन्नाम</b>	potassium inwardly-	transferase, mu 1 EST, Weakly similar to IRKF MOUSS ATP-SENSITIVE INWARD RECTIFIE POTASSIUM CHANNEL 15 [M.musculus], potassium inwardly-rectifying chennel, subfamily J, member 1, potessium inwardly- rectifying channel, subfamily J, member 10, potassium inwerdly- rectifying channel, subfamily J,

TABL	3), (*WM):	N HOMOTOGNE	ANNOTATIONS		Astry, Poodket No. 44927 +030 Dos. Mo. 17777
Sect (		GenBank Acc or Ref. Seg. 100		indicated and in	Momodorrus Olustor Name
1639 1639	5475 25546	NM_017023 NM_017023	b	potassium irwardly- recitiying channel, subfamily J, member 1	EST, Weakly similer to IRKF MOU ATP-SENSITIVE INWARD RECTU POTASSIM CHANNEL 15 [M.musculus], potassium inwardly- rectifying channel, subfamily J, member 1, potassium inwardly- rectifying channel, subfamily J, member 10, potassium inwardly- rectifying channel, subfamily J, member 10 member 10, member 10, potassium inwardly- rectifying channel, subfamily J,
1639	25546	NM_01/023	6,06		ESTs Highly similar to DELIUM
			,	lactale dehydrogenase 1.	"IESTs, Highly similar to DEHULM II alcata delytrogenase (H. sajenie, Ilacata delytrogenase (H. sajenie, IESTs, Moderately similar to DEHU L-lacata delytrogenase (H. sajenie, IESTs, Moderately similar to L- LACTATE DEHYDROGENASE ESTS, Moderately similar to L- LACTATE DEHYDROGENASE ESTS, Whas similar to DEMSIM. L-lacatale dehydrogenase (H. musculus), Hon- sapiens, Similar to Bactale dehydrogenase 1, A. chain, Complete ods, expressed sequency AUSS2310, Lacatale and C-23390 (MoGE-3393569, nmR complete ods, expressed sequency AUSS2310, Lacatale dehydrogenase 1, A. AUSS310, Lacatale dehydrogenase 1,
		1	1	A chain, lactate	chain, lactate dehydrogenase 1
1640	17807	NM_017025	i,General	dehydrogenase A	lectate dehydrogenese C
1641	24597	NM_017040	U	protein phosphatase 2 (formerly 2A), catalytic subunit, beta isoform, protein phosphatase 2a, catalytic subunit, beta isoform	Mus musculus adult (emale placent CDNA, RIKEN full-length enriched library, clone: 1600017.122, full insers sequence, RIKEN cDNA 23100032 gens, expressed sequence A1154(protein phosphatase 2 (cremerly 2A cetalytic subunit, beta isoform, protein phosphatase 2a, catalytic subunit beta isoform, protein phosphatase catalytic subunit lest isoform, protein phosphatase catalytic subunit
	24696	NM 017048		solute carrier family 4 (anion exchanger), imember 2, solute carrier, member 2 (exphriscyle members and solution).	band 3 protein, nonerythroid [H-taspiens], Human DNA sequence from clone RP4-7946 on chromoso 20 contains a gene for a putative oncogene protein, parts of 2 rovel genes, 1571, 5155, GSSs and QG semily 4, anion exchanger, member and the contractive of the contr

		K HOWO TO GREAT	RINGHANIONS	4.60	Ally: Docket No. 43224 -51327. Doc. No. 1773327
	Nier Mae	ConBent Ace./ Ref. Seg. ID No.	Model Gode	Normalogous Gene Norma	Nofrestanous Green a Yearn
1643	24695	.NM_017049			EST, Highly similar to B3A3 BAT ANON EXCHANGE PROTEIN 1 IR nonvegicus I, ESTs, Weakly similar to 13468 anine exchanger 3 shain tadorm (H-sapiena), Human DNA sequence from Lone RP4-7946 on chromosome 20 Containes a gene for potative encogene protein, parts of 27 novel genes, ESTs, STSs, GSS an CGO istands, souther carrier family 4, elimin exchanger), member 3, soute currier family 4, ericin exchanger, souther control to the control control control southernoon to the control control southernoon to the control control southernoon to the control control southernoon to the control control southernoon to the control control southernoon to the control control southernoon to the control control southernoon to the control
				superoxide dismutase 1, soluble, superoxide dismutase 1, soluble (amyotrophic lateral	ESTs, Moderately similar to SUPEROXIDE DISMUTASE (M.musculus), copper chaperone for superoxide dismutase, superoxide dismutase 1, soluble, superoxide dismutase 1, soluble (amyotrophic
1644	20876	NM_017050	j,n,z	sclerosis 1 (adult)) BCL2-associated X protein, Bcl2-associated X	lateral sclerosis 1 (edult)) BCL2-associated X protein, Bcl2-
1645	910	NM_017059	f,i,m	protein BCL2-associated X	essociated X protein
1645	912	NM_017059	<u>.                                    </u>	protein, Bcl2-associated X protein	BCL2-associated X protein, Bcl2- essociated X protein ESTs, Moderately similar to
1646 ,	1946	NM_017061	h	lysyl oxidase	LYOX_HUMAN PROTEIN-LYSINE 6- OXIDASE PRECURSOR [H.sapiens], ESTs, Moderately similer to PROTEIN LYSINE 6-OXIDASE PRECURSOR [R.norvegicus], hypothetical protein FLJ21889, tysyl oxidase, lysyl oxidase like, lysyl oxidase-like 1, lysyl oxidase like 2
646	1942	NM_017061	i,General	lysyl oxidase	ESTs, Moderately similar to LYOX, HUMAN PROTEIN-LYSINE 6- OXIDASE PRECURSOR [H.saplens], ESTs, Moderately similar to PROTEIN- LYSINE 6-OXIDASE PRECURSOR [R.norvegicus], hypothetical protein FLJ21889, 1991 oxidase, 1991 oxidase- like, 1991 oxidase-like 1, lysyl oxidase- like 2
646	1012				ESTs, Moderately similar to LYOX, HUMAN PROTEIN-LYSINE 6- OXIDASE PRECURSOR (H. sapiens), ESTs, Moderately similar to PROTEIN-LYSINE 6-OXIDASE PRECURSOR (R. norvegicus), hypothetical protein FLU21898, lysyl oxidase- flu21898, hysyl oxidase-like 1, lysyl oxidase-
	1943	NM_017061	1	lysyl oxidase  pleiotrophin, pleiotrophin (heparin binding growth factor 8, neurite growth-	like 2 EST, Moderately similar to JH0385 midkine precursor (H. sapiens), EST, Weakly similar to PTN MOUSE PLEIOTROPHIN PRECURSOR (R.nonvegicus), midkine, midkine (neurite growth-promoting factor 2), pleiotrophin, fleioritophin (heparin binding growth factor 8, neurite growth- promoting factor 1)

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TABLE	REALITHER SE	HOMOTOGREW	SMOTATIONS		Ally, Dockar No. 44920-503900 Doc. No. 1793897			
300, TD No.	ican <b>ji</b> ibo	GenBand: Ace/ Roll Soq. (D No.	Model Gode	Momologous Como Namo	Honologous Cluster Name			
1648	6654	NM_017068	w	lysosomal membrane glycoprotein 2, lysosomal- associated membrane protein 2	CD68 antigen, ESTs, Highly similar to LMP2 RAT LYSOSOME. ASSOCIATED MEMBRANE GLYCOPROTEIN 2 PRECURSOR [R.novegicus], ESTs, Weakly similar to A46042 lysosomal membrane glycoprotein lamp-2 homolog [I1.sapiens], lysosomal membrane glycoprotein 2, lysosomal-associated membrane protein 2			
1649	11153	NM_017073	s	glutamate-ammonia ligase (glutamine synthase), glutamine synthetase	glutamate-ammonia ligase (glutamine synthase), glutamine synthetase			
1650	923	NM_017076	General		DNA segment, Chr. 7, ERATO Doi 458, expressed, RIKEN cDNA 2810301819 gene, RIKEN cDNA 3830421F03 gene, poliovirus receptor, poliovirus receptor-related 2 (herpesvirus entry mediator B), poliovirus receptor-related 3, poliovirus sensitivity, tumor- assocaleta antigen 1			
1651	1523	NM_017079	s		CD1B antigen, b polypeptide, CD1D antigen, d polypeptide, CD1E antigen, e polypeptide, CD1d1 antigen, CD1d2 antigen			
1652	23660	NM 017080		hydroxysteroid (11-beta) dehydrogenase 1, hydroxysteroid 11-beta dehydrogenase 1	DNA segment, Chr 14, University of California at Los Angeles 2, ESTs, Weakly similar for CORTICOSTEROID 11-BETA-DEPHOROGENASE, ISOZYME 1 [R.nonegicus], expressed sequence C79347, hydroxysteroid (11-bela) dehydrogenase 1, hydroxysteroid 11-bela dehydrogenase 1, hydroxysteroid 17-bela dehydrogenase 11, retinal short-chain dehydrogenase 11, retinal short-chain dehydrogenase 1-1, retinal short-chain dehydrogenase/eductase retSDR2			
653			b,d,General	hydroxysteroid (11-beta) dehydrogenase 2, hydroxysteroid 11-beta dehydrogenase 2	Mus musculus, Similar to hydroxysteroid 11-beta dehydrogenase 2, clone MGC:25647 IMAGE:4235545, mRNA, complete cds, hydroxysteroid (11-beta) dehydrogenase 2			
654			j.8.z	uromodulin, uromodulin (uromucoid, Tamm-Horsfall glycoprotein)	RIKEN cDNA 2310037118 gene, tectorin beta, uromodulin, uromodulin (uromucoid, Tamm-Horsfall glycoprotein), zona pellucida glycoprotein 1			
655	1552	NM 017084		glycine N-				
655		NM_017084	y	glycine N-	glycine N-methyltransferase glycine N-methyltransferase			
					ESTs, Weakly similar to BONE/CARTILAGE PROTEOGLYCAN I PRECURSOR [R.norvegicus], ESTs, Weakly similar to PGS1 HUMAN BONE/CARTILAGE PROTEOGLYCAN I PRECURSOR [H.saplens], asporin,			
656	22552	NM_017087	3,k,x	biglycan	asporin (LRR class 1), biglycan, opticin			

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	<b>数别数</b> 数	мнологоси			Aug Docker No. 43921-5039 Poc No. 17933					
Seq. (D No.		GenBankAco FROM Seq. (D)		Homologous Gono Name y	Homologous Cluster Namo					
1657	. 8888	NM_017090	m	guanylate cyclase 1, soluble, alpha 3	IESTs, Weakly similar to ANPA MOUSE ATRIAL NATRURETIC PEPTIDE RECEPTOR A PRECURSOR (M.musculus), ESTS Weakly similar to GUANYLATE CYCLASE SOLUBLE, ALPHA-1 CHANI (R.norvegicus), guanylate cyclase 1, soluble, alpha 3, guanylate cyclase 1, soluble, bata 3, natriureti peptide receptor 1, soluble guanyly (cyclase 1), soluble guanyly (cyclase a), patrylate y cyclase 1, soluble guanyly (cyclase a) patrylate y subunit					
1658	10887	NM_017094	a,General	growth hormone receptor	growth hormone receptor					
1659	4393	NM_017101	a,y	peptidylprolyl isomerase A, peptidylprolyl isomerase A (cyclophilia)	ESTs, Highty similar to A Chain A, Cyclophilin A (H. sapiens), ESTs, Weakly similar to PEPTIDYL-PROL (ISS-TRANS) ESTS, Weakly similar to PEPTIDYL-PROL (ISS-TRANS) ESOMERASE A (IR. norvegicus), KIAA1228 protein, RIKEN CDNA 4300520F12 gene, RIKEN CDNA 4300520F12 gene, expressed sequence A/250F12 gene, expressed sequence A/250F12 gene, expressed sequence A/250F12 gene, per didyloroly isomerase A/1192, paptidyloroly isomerase € (cyclophilin G/cyclophilin 660	24770	NM 017111	d	solute carrier family 21 (organic anion transporter), member 1	blood-brain barrier specific anion' transporter, soluc carier family (organic anion transporter) member 10, solule carrier family 21 (organic arion transporter), member 1, solult carrier family 21 (organic arion transporter), member 10, solule carrier family 21 (organic anion transporter), member 14, solulte carrier family 21 (organic anion transporter), member solule carrier family 21 (organic anion transporter), member 6, solute carrier family 21 (organic anion transporter), member 8.
1661	20745	NM_017113	0	granulin	granulin					
1661	20746	NM_017113	а	granulin	granulin					
1662	1375	NM_017122	w	hippocalcin	DNA segment, Chr 15, ERATO Doi 141, expressed, ESTs, Highly simila to HIPP RAT NEURON SPECIFIC CALCIUM-BINDING PROTEIN HIPPOCALCIN (R.norvegicus), EST Highly similar to VISS MOUSE VISI NUKE PROTEIN 3 IM. musculus), hippocalcin, hippocalcin-like 1, hypothekical proble in EL20481 CD37 antigen, EST, Highly similar to CD37 antigen, EST, Highly similar to CD37 antigen.					
1663	12903	NM 017124	k		A47629 cell surface glycoprotein CD [H.sapiens], Mus musculus, Similar I CD37 antigen, clone MGC:7983 IMAGE:3585492, mRNA, complete cds, oculospanin					

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Seq. 11				Momofogous Gene Name	Momologous Gluster Nama
1684	, 24885	NM_017138	,	laminin receptor 1 (67kD, ribosomal protein SA)	EST, Moderately similar to 40S RIBOSCAMA_PROTEIN SA IR. DORVERS SA STATE SA STATE SA STATE A 31233 MODERNI protein Protein PSA 4 Cydosolic (H. sapiena), ESTs, High similar to ASSO laminin recept 67K (H. sapiena), ESTs, Moderat similar to ASSOS floatmanin recept 75K (H. sapiena), ESTs, Moderat similar to ASSOS floatmanin recept 188. 40K - mouse (M. mascalus), 1 Weakly similar to 140SS40A prot 40M (Min recepture), 10 Min recepture 40M (Min receptur
1664	24886	NM 017138	d.a	laminin receptor 1 (67kD,	EST, Moderately similar to 40S RIGOSOMAL PROTEIN SA IR. non-egicue], ESTs, Highly sim A31233 ribosomal prolein R5 40, cytosolic [H. sapiens], ESTs, High similar to A5880 laminin recept [57K [H. sapiens], ESTs, Moderat similar to A5880 laminin recept [67K [H. sapiens], ESTs, Moderat similar to A58305 ribosomal proi RS.40K - mouse (M. musculus), EV Westly similar to 1405340A proi 40RD [M. musculus], Homo sapien laminin receptor-like priciein LAM mRNA, Complete or, Jaminin receptor-like cots, Jaminin re
1665	15363	NM_017147	n.u	cofiin 1 (non-muscle), cofiin 1, non-muscle	1 (67R), ribosomal protein SA) EST, Moderatly similar to COF1 HUMAN COFILIN, NON- MUSCLE ISOFOR (Haspiens), ESTS, Highly similar to DEST_HUMAN DESTRIN (Haspiens), ESTS, Moderately similar to COFI RAT COFILIN, NON-MUSCLE ISOFOR [R. norvegicus], ESTS, Moderately aimilar to COFI, HUMAN COFILIN NON-MUSCLE ISOFOR (Haspier Coffin 1 (non-muscle), coffin 1, nor muscle, coffin 2 (muscle), coffin 1, muscle, distance)
1666	13392	NM 017148	u,General		IEST, Moderately similar to CYSR CYSTEINE-RICH PROTEIN 1 IR. norvegicus], ESTS, Weakly sim to CYSR RAT CYSTEINE-RICH PROTEIN 1 [R. norvegicus], ESTS Weakly similar to S12658 cysteine protein [H. sapiens], cysteine and glycine-rich protein 1, cysteine rich protein, cysteine-rich protein 2, cysteine-rich protein 3, cystei

TABLE	E: HUMY)	HOMOLOGUFA	NNO VALONS	<b>表一个一个成</b>	Any, Docket No. 44924-56397 Doc. No. 179339
	Martiflor	Gorffenik Age. Ref. Geg. 10 No.		Homologous Gono Ulaxo	Homologous Gluster Namo
					EST, Moderately similar to 60S RIBOSOMAL PROTEIN L29 [R. norvegicus]. EST, Weakly similar S85784 ribosomal protein L29, cytosotic [H.saplens]. ESTs, Highly similar to S65784 ribosomal protein L29, cytosotic [H.saplens]. ESTs, Weakly similar to 60S RIBOSOMAL PROTEIN L29 [M. musculus], Humar DNA sequence from clone RP4-
1667	] 5351	NM_017150		ribosomal protein L29	-595K12 on chromosome 1p31;2-31. Contains a pseudogene similar to 6i RPL29 (ribosomal protein L29 (cell surface heparin binding protein HIP) a chromosome 1 specific mRNA (KIAA0499), a novel mRNA (KIAA043), ETS, STSs, GSSs and CpG Island, ribosomal protein L29
					EST, Moderately similar to R3HU15 ribosomal protein S15, cytosolic [H.sapians], EST, Weatky similar to 40S RIBOSOMAL PROTEIN S15 [R.norvegicus], ESTs, Highly similar R3HU15 ribosomal protein S15, cytosolic [H.sapians], Homo sapiens
668	16954	NM_017151	a,n	ribosomal protein S15	clone IMAGE:4479080, mRNA, parti cds, ribosomal protein S15
					EST, Weakly similar to 40S RIBOSOMAL PROTEIN S17 [M.musculus], ESTS, Highly similar to R4HU17 ribosomal protein 'S17, cytosolic [H.saplens], ESTs, Moderately similar to R4HU17
669	21643	NM_017152 .	g	ribosomal protein S17	ribosomal protein \$17, cytosolic [H.sapiens], ribosomal protein \$17
570	1694	NM 017153	a,q	ribosomal protein S3A,	EST, Weakly similar to RS3A MOUS 40S RIBOSOMAL PROTEIN S3A [M.musculus], ESTS, Highly similar to JC4662 ribosomal protein S3a, cytosolic [H.sapiens], ribosomal protein S3A, ribosomal protein S3a
					IEST, Moderately, similar to R3HUE  'inbosomal protein S6, cytosolic  (H. saplens), EST, Westely, similar to  40S RIBOSOMAL PROTEIN S6  (R. norvegicus), ESTs, Moderately  similar to 40S RIBOSOMAL PROTEIN  S6 [M. musculus], Homo sapiens  cDNA: FLU23534 fis, clone IN00697  highly similar to HUMRPS6A Human  ribosomal protein S6 mRNA, RIKE  CDNA 5530465M2 gene, ribosomal
671	17104	<u>NM_017160</u>	bb,General	ribosomal protein S6	protein S6 EST, Moderately similar to R3HU6 ribosomal protein S6, cytosolic [H.sapiens], EST, Wassly similar to 40S RIBOSOMAL PROTEIN S6 IR NOVERION SETS, Moderately similar to 40S RIBOSOMAL PROTEIN S6 [M.musculus], Homo sapiens CDNA: FLU2354 ifs, clone LNG0697 highly similar to HUMRPS6A Human thosomal protein S6 mRNA, RIKEN
571	17106	NM_017160	U .	ribosomal protein S6	cDNA 5830405M20 gene, ribosomal iprotein S6

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TABLE	B: HUMAN	HOMOLOGUEA	RACITATIONS		Aug. Dockel No. (1929-1939) Doc. No. 17989	
Seq.(ID) No.	Strillita	Conflant: Acc./	Model/Gode	Hemologous Goro Nemo		
					EST, Moderately similar to R3-IU6 injournal protein S6, cytosotic [Ib4 sapiens], EST, Weakly similer to 40S RIBOSOMAL PROTEIN S6 [IR norvegicus], EST4, Moderately similar to 40S RIBOSOMAL PROTEIN S6 [IM. muscuks], Homo sapiens cDNA: FL/2534 fis, clone LNG0697, highly similar to HUMRP S6A Human ribosomal protein S6 mRNA, RIKEN CDNA 583040870 gene, ribosomal	
1671	17686	NM_017160	d,e	nibosomal protein S6  glutathione peroxidase 4, glutathione peroxidase 4 (phospholipid hydroperoxidase)	protein 58 EST, Moderarely similar to T02747 phospholipid-hydroperoxide EST, Moderarely similar to T02747 phospholipid-hydroperoxide EST, Weaky similar to T02747 phospholipid-hydroperoxide glutathrione proxides gli4 salpsins], EST, Weaky similar to C034H RAT PHOSPHOLIPID INTROPEROXIDE RED, Market Similar to C034H RAT PHOSPHOLIPID INTROPEROXIDE RED, MORRIST SIMILAR TO C034H RAT PHOSPHOLIPID INTROPEROXIDE RED, MORRIST SIMILAR TO C034H RAT PHOSPHOLIPID INTROPEROXIDE RED, MORRIST SIMILAR TO C034H RAT PHOSPHOLIPID INTROPEROXIDE RED, MORRIST SIMILAR TO C034H RAT PHOSPHOLIPID INTROPEROXIDE RED, MORRIST SIMILAR TO C034H RAT PHOSPHOLIPID INTROPEROXIDE RED, MORRIST SIMILAR TO C034H RAT PHOSPHOLIPID INTROPEROXIDE RED, MORRIST SIMILAR TO C034H RAT PHOSPHOLIPID INTROPEROXIDE RED, MORRIST SIMILAR TO C034H RAT PHOSPHOLIPID INTROPEROXIDE RED, MORRIST SIMILAR TO C034H RAT PHOSPHOLIPID INTROPEROXIDE RED, MORRIST SIMILAR TO C034H RAT PHOSPHOLIPID INTROPEROXIDE RED, MORRIST SIMILAR TO C034H RAT PHOSPHOLIPID INTROPEROXIDE RED, MORRIST SIMILAR TO C034H RAT PHOSPHOLIPID INTROPEROXIDE RED, MORRIST SIMILAR TO C034H RAT PHOSPHOLIPID INTROPEROXIDE RED, MORRIST SIMILAR TO C034H RAT PHOSPHOLIPID INTROPEROXIDE RED, MORRIST SIMILAR TO C034H RAT PHOSPHOLIPID INTROPEROXIDE RED, MORRIST SIMILAR TO C034H RAT PHOSPHOLIPID INTROPEROXIDE RED, MORRIST SIMILAR RED, MORRI	
1072	17000	01103	1134		ESTs, Weakly similar to STHM MOUSE STATHMIN [M.musculus], Homo sapiens (clone B3B3E13) Huntington's disease candidete region	
1673	20702	NM_017166	c	leukemia-associated gene, stathmin 1/oncoprotein 18	mRNA (ragment, leukemia-associated gene, stathmin (horoproteite) 18 EST, Wessky similar to KICE MOUSE (OVC.NE/ETHANGLAMME KINASE) (M. marculus) 25 EST, Wessky similar to KICE MOUSE (ONLINE) ETHANGLAMME KINASE (R. norvegicus), Homo sepiene, Similar to KOCLINE/ETHANGLAMME KINASE (R. norvegicus), Homo sepiene, Similar to hypothetical protein F-LI1/0761, chole MoC-19512 (IMAGE-432974), mRNA, compilere col, Muer susculus mRNA (arc choline/ethanclamin kinase, compilere fore, RIKEN CONA. Sepiene September 1998).	
1674	3513	NM_017177	r .	Cronnee unanoumme kinase  T-cell death associated gene, pieckstrin homology, the domain, family A.	enhandismine sintées, hyponetical production de l'account	

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	1	HOMOLOGUEA			Aily, Docket No. 43929-51090 Doc. No. 179339
3390, (D) No.	Mandiffor	Red Sec. 10 No.	Model Gode	Nomologous Gerra Nama	hound gook Gresic Verno
					EST, Moderaley similar to HMG2 RV- HIGH MOBILTY (RGUP PROTEIN HMG2 [R. novegious], EST, Wealey similar to HMG2 RAT HIGH MOBILLY (Rovegious), EST, Wealey similar to HMG2 RAT HIGH MOBILLY (Rovegious), EST, Wealey similar to HMG2 RT HIGH MOBILLY orotics 12 H saplema), ESTA, Wealey similar to HMG2 RAT HIGH MOBILLY (Rovegious), Human DMA sequent from clone RP3-52/281 to Contains a rover the recommendation of the recommendation from clone RP3-52/281 to Contains mobility group) protein, STSs and (SSSs, Human DMA sequence from clone RP3-52/281 to Contains mobility group) protein, STSs and (SSSs, Human DMA sequence from clone RP3-52/281 to Contains play 2-53.5. Dorotics play for a novel CUB and Stain (SCR regeal) doromal potein, a novel high- contains play to the group for a novel CUB and Stain (SCR regeal) doromal potein, a novel high- contains play to the group for a novel CUB and Stain (SCR regeal) doromal potein, a novel high- contains play to the group for a novel cub and stain (SCR regeal) doromal potein, a novel high- group in contains and the group for a novel cub and stain (SCR regeal) doromal potein, a novel high- group (nothibus) and the group for a novel cub and stain (SCR regeal) doromal potein, a novel high- group (nothibus) and the group for a novel for a novel cub and stain (SCR regeal) doromal potein (SCR regeal) doromal potein, a novel high- group (nothibus) and the group for a novel for a novel cub and the stain and the group for a novel cub and the stain and the group for a novel cub and the stain and the stain for a novel cub and the stain and the stain for a novel cub and the stain for a novel cub and the stain for a novel cub and the stain for a novel cub and the stain for a novel cub and the stain for a novel cub and the stain for a novel cub and the stain for a novel cub and the stain for a novel cub and the stain for a novel cub and the stain for a novel cub and the stain for a novel cub and the stain for a novel cub and the stain for a novel cub and the stain for a novel cub and the stain for
676	15437	NML 017167	X.z		protein 2 EST, Moderately similar to HMS2 RAHOH MOBILITY GRQUP PROTEIN HIGH MOBILITY GRQUP PROTEIN SIMILAR FOR THE PROTEIN SIM

Province	07 (10000000			-294-	
4207	27 18 18 18	H-JOWO-COGALETY			Ally: Docket No. 44924-503877 Doc. No. 1793397
900, ID 76.	Mentifico	GenBank/Accul Ref. Geoglib No.		Hemplogous Goro	Homologous Chester Nerve
					EST, Moderately elimitar in Mid2 TA:  INICH MOSILITY (ROUP PROTEIN HMG2 [R. ROVergleux], EST, Weakly similar to HMG2 RAT HIGH MOSILITY (ROVER) PROTEIN HMG2 [R. ROVERGIUS], EST, Weakly similar protein 2 [H. soplemn], ESTA, Weakly similar protein 2 [H. soplemn], ESTA, Weakly similar to HMG2 RAT HIGH MOSILITY (ROVER) PROTEIN HMG2 [R. ROVERGIUS], HIMMO RAT HIGH MOSILITY (ROVERGIUS], HIMMO RAT HIGH MOSILITY (ROVERGIUS), HIMMO RAT HIGH MOSILITY (ROVERGIUS), HIMMO RAT HIGH MOSILITY (ROVERGIUS), HORSE  104 A. S. S. S. S. S. S. S. S. S. S. S. S. S.
1676	15434	NM 017187	x,z		group (nonhistone chromosomal)
1677	24437	NM_017190		malignancy-associated protein, myelin-associated glycoprotein	CD33 antigen, CD33 antigen (gp67), ESTs, Weakly similar to MYELIN- ASSOCIATED GLYCOPROTEIN PRECURSOR [R.norvegicus], Homo sapiens HSPC078 mRNA, partial cds, myelin associated glycoprotein, myelin
10//	24437	NM_01/190	P	glycoprotein	associated glycoprotein ESTs, Weakly similar to S48737
				L-kynurenine/alpha- aminoadipate aminotransferase, kynurenine	kynurenine aminotransferase - rat (R.norvegicus), cysteine conjugate- beta lyase; cytoplasmic (glutamine transaminase K, kyneurenine aminotransferase), hypothetical protein
1678	1542	NM_017193	j,l,m,z	aminotransferase II	669 EST, Weakly similar to COX4_HUMAN
1679	14695	NM 017202	q,s		LS1, veaty siniar to COX1—Thomax CYTOCHROME C OXIDASE POLYPEPTIDE IV PRECURSO [H. saplens], cytochrome c oxidase subunit IV, cytochrome c oxidase subunit IV isoform 2, cytochrome c oxidase subunit IV isoform 2 subunit IV isoform 2 subunit IV ixoform 2 subunit IV ixoform 2 subunit IV ixoform 2 coxidase, subunit IV ixoform 2 coxidase, subunit IV ixoform 2 coxidase, subunit IV ixoform 2 coxidase, subunit IV ixoform 2 coxidase, subunit IV ixoform 3 coxidase, subunit IV ixoform 4 coxidase, subunit IV ixoform 5 coxidase, subuni
1679	14694		S.Z.		EST, Weakly similar to COY4, HUMAN CYTOCHROME C OXIDASE POLYPEPTIDE IV PRECURSO [H.sapiens], cytochrome c oxidase subunit IV isoform 2, cytochrome c oxidase subunit IV isoform 2, cytochrome c oxidase subunit IV soform 2 precursor, cytochrome c oxidase, subunit IV soform 2 precursor, cytochrome c oxidase, subunit IV0, expressed sequence AUQ24441

TABLE	Sc HUMAN	HOMOTOGALV	NOTATIONS		- Ang Pouloi no 4:920-8:08000
Soq. II. No	lach union	GmBmk Acc/ Roll Gry ID Lis.	moden Golda	Name Name	Goo, No. 1793397. Homologicus Gluster Nerma
1680	1428	.NM_017213	m	outer dense fiber of sperm fails 2, outer dense fibre of sperm tails 2	ESTs, Highly similar to T09400 outer dense fiber protein 2 - mouse (IM-musculus), KIAA1229 protein, Myosin heavy chain 11, Myosin, heav polypeptide 9, non-muscle, expressed sequence C80049, myosin, heavy polypeptide 9, non-muscle, outer dense fiber of sperm tails 2, outer dense fiber of sperm tails 2.
1681	1622	NM_017216	(g.j.s.z	solute carrier family 3 (cystine, dibasic and neutral amino acid transporters, activator of cystine, dibasic and neutral amino acid transport), member 1, solute carrier family 3, member 1	(ESTs, Moderately similar to 1914205). At transporter [H.sapiens], putative L type neutral amino acid transporter, schulte carrier family 3 (activators of dibasic and neutral amino acid transport), member 2, solute carrier family 3 (cystine, dibasic and neutral amino acid transporters, activator of cystine, dibasic and neutral amino aci transport), member 1, solute carrier family 3, member 1, solute carrier family 3, member 1,
1682 1682	13642	NM_017220	]v		
1682	1510	NM_017220	General		EST, Moderately similar to LCB84 organic callon transporter protein 2 - control to the control t
1684	1811	NM_017228	j.l.m.z		ESTS, Moderately similar to DRPL RAT ATROPHIN-IR, norvegicus), ESTS, Weakly similar to G01763 attrophin-I [H. aspiens], Homo sapiens, clone IMAGE-4153266, mRNA, partial attrophin-I [H. aspiens], Homo sapiens, RICKE, CDN-28 (2012K9) gene, RICKE, CDN-28 (2012K9) gene, arginine-putamic acid dipeptite (RE) repeats, dentalorubral pallidolysian atrophy, dentalorubral pallidolysian atrophy, dentalorubral-pallidolysian atrophy (attrophin-I), expressed sequence C78339, formin EST, Weakly similar to EPHU2
1686	17563	NM_017245 ;	a,c,e,q	eukaryotic translation	translation elongation factor eEF-2 (H. sapiene), ESTs, Highly similar to ELONGATION FACTOR 2 (FR. rovegicus), ESTs, Woashly similar to ELONGATION FACTOR 2 (FR. rovegicus), ESTs, Woashly similar to ELONGATION FACTOR 2 (FR. rovegicus), ESTS, Woashly 2, Pike Colongation factor and the colongation factor of the colongation factor o

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100		Altomofogne			Any Doctol No. 44921 Doc No. 11
300 ID	Kles (III)	GenBank Acc. Roll Son, 10 N	Model Gode	Homologous Gene Name	Homologicus (Clustor Nen
	MOEATINE.	WISG UN	3-1000-14-000	Office Control of the	ESTS, Highly similar to ROAD. HETEROGENEOUS NUCLE. HEIDROUGLEOPROTEIN AT HETEROGENEOUS NUCLE. HEIDROUGLEOPROTEIN AT HEIDROUGLEOPROTEIN AT HEIDROUGLEOPROTEIN AT HEIDROUGLEOPROTEIN AT HEIDROUGLEOPROTEIN AT HETEROGENEOUS NUCLEE HEIDROUGLEOPROTEIN AT HETEROGENEOUS NUCLEE HEIDROUGLEOPROTEIN AT HETEROGENEOUS NUCLEE HEIDROUGLEOPROTEIN AT HETEROGENEOUS NUCLEE HETOROGENEOUS
		1		heterogeneous nuclear	RIKEN cDNA 4930547K05 ge heterogeneous nuclear
1687	17502	NM_017248	Jr .	ribonucleoprotein A1	ribonucleoprotein A1
1687	17501	NM_017248	X	helerogeneous nuclear ribonucleoprotein A1	IR nonegicus ESTs, Moders institute 10 tp. 1 m Ven Rha- Recognition Modif Domain Of 10 Will 5 10 tp. 1 m Ven Rha- Recognition Modif Domain Of 10 Will 5 10 tp. 1 m Ven Rha- (WIS 5 1 tp. 1 m Ven Rha- HETEROGENECOUS NUCLEE, IRISONUCLEO PORTIEN M I (IR nonegicus), ESTs, Weak) to teterogeneous rehousies protein A1 FIL aspieras, Human protein A1 FIL aspieras, Human commoniome 13 Containe ES and GSSs. Containe en HARI (INCHOCOME) CONTAINE M PRO- TRIEN COMMONIONE M VI (INCHOCOME) CONTAINE M VI (INCHO
					proliferative, ESTs, Weakly sir BTG1 RAT BTG1 PROTEIN [R.norvegicus], transducer of the
1688	19	NM 017258	v,General	B-ceil translocation gene 1, anti-proliferative	1, transducer of ERBB2, 2, tra of ErbB-2.1
	15300	NM_017259	, I.v.cc,General	B-cell translocation gene 2; anti-proliferative, BTG family, member 2	B-cell translocation gene 2, ar proliferative, B-cell translocation 3, B-cell translocation gene 4, family, member 2, BTG family, member 3, BTG family, memb ESTs, Highly similar to BTG2 BTG2 PROTEIN PRECURSO (H.sapiens) B-cell translocation gene 2, ar B-cell translocation gene 2, ar
1689	15301	NIM 017250		anti-proliferative, BTG	proliferative, B-cell translocation, B-cell translocation gene A-cell translocation gene A-cell translocation gene A-cell translocation, B-cell translocat
1089	15301	NM_017259	.lat	family, member 2	[H.sepiens]

TABLE	a Human	HOWOROGNEY			A17). Docket No. 43921-40397 Doc. No. 1779397
sog ID Yo.	Identifier	GunBark Açal Ref. Seq. ID No.	Model Gode	Hamologous Gono Namo	Homologóus Gluster Namo
1689	15299	NM_017259	I.y.cc.General	B-cell translocation gene 2 anti-proliferative, BTG family, member 2	B-cell translocation gene 2, anti- proliferative, B-cell translocation gen 3, B-cell translocation gene 4, BTG family, member 2, BTG family, member 3, BTG family, member 4, ESTs, Highly similar to BTG2, HUMA BTG2 PROTEIN PRECURSOR [H.sapiens]
1690	15224	NM_017264	d	protease (prosome, macropain) 28 subunit, alpha, proteasome (prosome, macropain) activator subunit 1 (PA28 alpha)	EST, Moderately similar to A Chain A Proteasome Activator Reg(Alpha) (SUB 4-63 [H.saplens], proteasome (prosome, macropain) activator subunit 1 (PA28 elpha)
1691	3987	NM_017280	bb	proteasome (prosome, marcopain) subunit, alpha type 3, proteasome (prosome, macropain) subunit, alpha type, 3	mulicatalytic endopelidase complete [H.sapiena], ESTS, Highly similar to PRCS MOUSE PROTEASOME (COMPONENT CB [M. muscuus), ESTS, Highly similar to PRCS MOUSE PROTEASOME (COMPONENT CB PROTEASOME (COMPONENT CS NUTURE AND ADMINISTRATION OF THE COMPONENT CS NUTURE AND ADMINISTRATION OF THE CS NUTURE AND
				proteasome (prosome, macropain) subunit, alpha type 4, proteasome (prosome, macropain)	EST, Weakly similar to SNHUC9 multicatalytic endopeptidase comples [H.sapiens], proteasome (prosome, macropain) subunit, alpha type 4, proteasome (prosome, mecropain)
1692	15535	NM_017281	J. S. Db	subunit, alphe type, 4 proteasome (prosome, macropain) subunit, alpha type 6, proteasome (prosome, macropain) subunit, alphe type, 6	subunit, aiphe type, 4 ESTs, Weakly simiter to PRCI_HUMAN PROTEASOME IOTA CHAIN [R.norvegicus], proteasome (prosome, macropain) subunit, elphe type 6, proteasome (prosome, macropain) subunit, alpha type, 6
1694	12349	NM_017290	General	ATPase, Ce++ transporting, cardiac muscle, slow twitch 2	
				calcium channel , voltage-	EST, Highly similar to CCAD MOUSE VOLTAGE-OPERCENT L. TYPE VOLTAGE-OPERCENT L. TYPE COUNTING THE MOUSE PROPERTY OF THE MOUSE PROPERT
1695	15819	NM 017298	lo .	dependent, L type, alpha 1D subunit	alpha 1F subunit, polycystic kidney disease 2-like 2

TABUE 8	: HUMAN	HOTOCOGNEVI	NOTATIONS :		Arry, Docket No. 44921-5080 Doc. No. 179800
309. ID 10.	Triantifor	Contacts Acc./ Ref. Seg. ID No.	Wodal Godo	Hamologicus Care Namo	Homologous Gluster Namo
696	23825	NM_017299		solute carrier family 19 (folate transporter), member 1, solute carrier family 19 (sodium/hydrogen exchanger), member 1	expressed sequence AW322295, solute carrier family 19 (totale transporter), member 1, solute carri family 19 (sodium/hydrogen exchanger), member 1, solute carrie family 19 (sodium/hydrogen exchanger), member 3, solute carrier family 19 (triamine transporter), member 2, solute carrier family 19 (mamille transporter), member 2, solute carrier family 19 (member 3)
1696	23826	NM_017299	v	solute carrier family 19 (folate transporter), member 1, solute carrier family 19 (sodium/hydrogen exchanger), member 1	expressed sequence AW32229S, solute carrier family 19 (folate transporter), member 1, solute carrier family 19 (sodium/hydrogen exchangen), member 1, solute carrie family 19 (sodium/hydrogen exchanger), member 3, solute carrier family 19 (triamine transporter), member 2, solute carrier family 19 (mamine transporter), member 3, solute carrier family 19, member 3
697 .	14003	NM_017305	j,l,m,y,z	glutamate-cysteine ligase, modifier subunit, glutamate cysteine ligase, modifier subunit	ESTs, Highly similar to GSH0_HUM GLUTAMATE-CYSTEINE LIGASE REGULATORY SUBUNIT [H.sepier glutamate-cysteine ligase , modifier subunit, glutamete-cysteine ligase, modifier subunit
698	26109	NM_017306	q,s		ESTs, Highly similar to D3D2 RAT 3
698	18687	NM_017306	g,t	dodecencyl-Coenzyme A delta isomerase (3.2 trans- encyl-Coenyme A isomerase), dodecencyl- Coenzyme A delta isomerase (3.2 trans-encyl- Coenzyme A isomerase)	TRANS-ENDYT-COA ISOMERASE MITOCHONDRIAL PRECURSOR (R. norvegicus), Homo sapiens, Sini to dodecano/J-Coenzyme A della Isomerase (3,2 trans-enoy/-Coenzym A somerase), clone MGC-3903 (MAGE:3803566, mRNA, complete code, dodecanoy/-Coenzym A della Isomerase (3,2 trans-enoy/-Coenym A della Isomerase (3,2 trans-enoy/-Coenym A della Isomerase (3,2 trans-enoy/-Coenym A isomerase).
699	18142 1894	NM 017314 NM 017320	g.s.aa		polyubiquitin 4 - mouse [M. musculus EST, Weaky similar to JE0190 polyubiquitin multi (H.sapiens), Homo sapiens UBBP2 pseudogene for ubiquitin UBB, RIKEN CDNA 2700054004 gene, expressed sequence AI194771, expressed sequence AI.03328, ubiquitin B, ubiquitin C cathepsin S
	20809	NM 017326		calmodulin 2, calmodulin 2 (phosphorylase kinase,	Calmodulin 1 ghosphorytass kinase delala, Calmodulin I. ESTS., Highly similar to A Chain A. Calmodulin Complexed Wilh Calmodulin Pompise From Smooth Muscle Myos Light Chain Kinase (SUB 2-148 [H sapiens] R. norvejcius Callill intropeautogene (Sohen lambda SC27), RIKEN cDNA 23100680/22 gene, calmodulin 1, calmodulin 1 (phosphorylass kinase, delta), calmodulin 2 (ammodulin 2, damodulin 2, damodulin 2, damodulin 2, damodulin 2, damodulin 2, damodulin 3, damodu

TABLE	BE HUMA	A HOMOROGUER	NNOVATIONS	Sec.	Any, Dockel No. 44924 -51697 Doc. No. 1793391
30G. (E (ic.	)   Nortific	GenBank Acc./ Roll, Sog. To No	Model Godo	Nemonaro e Cente	nandegovskivski ktore
					ESTS, Highly similar to ACVL. COENZYME A OXIDASE. PEROXISOMAL (R. norvegicus), EST Highly similar to CAOP. HUMAN AC COENZYME A OXIDASE. PEROXISOMAL (H. sapiens), RIKEN LONA 130003003 gene, RIKEN LONA 2310016C19 gene, acetyl- Coenzyme A Gwlydrogenase, short chain, acyl-Coenzyme A oxidase 2, branchad chain, isovalery (ocenzyme
1703	16148	NM_017340	q,s		A dehydrogenase ESTs, Highly similar to ACYL-
1703	16150	NM 017340			ES11, rugny similar to ACTL COENZYME A OXIDASE; PEROXISOMAL (R norvegicus), EST Highly similar to CADP; HUMAN ACV COENZYME A OXIDASE; PEROXISOMAL (H sapiena), RIKEN LONA 1300003009 gene, RIKEN LONA 231001619 gene, acetyl-Coenzyme A dehydrogenase, short chain, acyf-Coenzyme A caldise 2, branched chain, isovalenyl coenzyme A dehydrogenase
1704	20849	NM_017343	r,u,General		ESTs, Weakly similar to MOHULP myosin regulatory light chain, placent [H.sapians], RIKEN CDM. 2900073G15 gene, expressed sequence C77744, myosin, light polypeptide, regulatory, non-sarcomeric (20kD)
1704	20848	NM 017343	b.General		ESTs, Weakly similar to MCHULP myosin regulatory light chain, placent (H.sapiens), RIKEN cDNA 2900073G15 gene, expressed sequence C77744, myosin, light polypeptide, regulatory, non- sarcomeric (20kD)
1705	606	NM_017350	Ь		GPI-anchored metastasis-associated protein homolog, metastasis- associated GPI-anchored protein, plasminogen activator, urokinase receptor, urokinase plasminogen activator receptor
1706	1581	NM_017365	General :	.PDZ and LIM domain 1 .(elfin)	ESTs, Weatly similar to LIM PROTEI CLP96 (Rnovejous), PD2 and LIM domain 1 (elfin), PD2 and LIM domain 3, PD2-LIM protein imystique, RIKEN CDNA 1110003B01 gene, Rattus norvegious LIM-domain protein LIM- mRNA, complete cds, 2-band alternatively spiliced PD2-molf, actini alpha 2 associated LIM protein, alpha actinin-2-associated LIM protein, reversion induced LIM gene ESTs, Moderately similar to alpha- ESTs, Moderately similar to alpha-
				tropomyosin 1 (alpha),	tropomyosin slow [M.musculus],
1707	455	NM_019131	x	tropomyosin 1, alpha	tropomyosin 4 ESTs, Moderately similar to alpha-
707	456	NM 019131	y.z	tropomyosin 1 (alpha), tropomyosin 1, alpha	tropomyosin slow [M.musculus], tropomyosin 4

TABLE	E HUUMAN	HOMOLOGUE A	SKIOT ANTOKIS	等 大 新祖	Any Doeket No. 44921 -51991/ Doe, No. 1798897
seg. ID Xo.	Libratifier	Contents Accel (Rof. Scg. ID No.	Model Gode	Home de gran F. Boots.	Homelogous leurano Nama
1708	4532	NM_019134	ъ	solute carrier family 12 (sodium/potassium/chlorid e transporters), member 1, solute carrier family 12, member 1	IEST, Weakly similar to NICC2 HUMD INJECTION SENSITIVE SOUDIM (POTASSIUM)-CHLORIDE COTRANSPORTER 2 (KIDNEY-SPECIFIC NA-K-CL SYMPORTER) [H.sapienia, expressed sequence JA788571, hypothetical protein FL23188, solute carrier family 12 (sodium)potassium/chloride transporters), member 1, solute carrier family 121, member 1, solute carrier family 12, member 1, solute carrier family 12, member 2, solute carrier family 12, member 3, solute carrier family 12, member 3, solute carrier family 12, member 2
1709	1608	NM 019166	j.y.z	synaptogyrin 1	ESTs, Moderately similar to SNG1 RAT SYNAPTOGYRIN 1 [R.norvegicus], synaptogyrin 1, synaptogyrin 3, synaptogyrin 4
1709	1606	NM_019100	1.7.2	synuciein, alpha, synuciein, alpha (non A4 component of amyloid	synuclein, alpha, synuclein, alpha (no A4 component of amyloid precursor).
1710	7489	NM 019169	c.General	precursor)	synuclein, beta, synuclein, gamma
1711	17066	NM 019170			carbonyl reductase (NADPH) (EC 11.1.184), inducible - rat [R. norvegicus]. Home sapiens, clone MGC:23280 IMAGE:4837504, mRNA complete cds, RIKEN cDNA 1110001J05 gene, RIKEN cDNA 93300590V gene, carbonyl reductas 1, carbonyl reductas 2, expressed secuence C431353
				carbonic anhydrase 4,	ESTs, Weakly similar to CARBONIC ANHYDRASE IV PRECURSOR (R.norvegicus), carbonic anhydrase 15, carbonic anhydrase 4, carbonic anhydrase IV, carbonic anhydrase
1712	23924	NM_019174	bb	carbonic anhydrase IV	XIV, expressed sequence AW458711. ADP-ribosylation factor-like 4, ADP-ribosylation factor-like 7, ADP-ribosylation-like 4, ESTs, Weakly similar to ARI-4 MOUSE ADP-RIBOSYLATION FACTOR-LIKE PROTEIN 4 (M. musculus), Musculus, imiliar to ADP-ribosylation factor-like Protein 4 (M. musculus).
1713	24019	NM_019186		ADP-ribosylation factor-like 4, ADP-ribosylation-like 4 CD47 antigen (Rh-related antigen, Integrin- associated signal	like 4, clone MGC:5774 IMAGE:3599701, mRNA, complete c
				transducer), integrin-	
1714	22063	NM_019195	d	associated protein	ESTs, Weakly similar to GRG MOUS GRG PROTEIN [R.norvegicus], amin
1715	2079	NM_019220	i,k,z		terminal enhancer of split

TABLE	BE HUMAN	HQMOROGAEV!	INOTATIONS		Affy, Decitof No. 4924-509 Dec. No. 1790
Seg. ID	nicalities:	GognBank Acc./ Ref. Son. ID No.	Model code	Homologous Cana Name	Hamolonaus Obstar Danio
				solute carrier family 12 (potassium/chloride transporters), member 4, solute carrier family 12,	EST, Moderately similar to 15142 Contanaport protein KCC1, furcasmide-sensitive - rat (Fronzeille, EST, Weakly similar) (Fronzeille, EST, Weakly similar) (Fronzeille, EST, Weakly similar) (Fronzeille, EST, Weakly similar) (Fronzeille, EST, Weakly similar) (Fronzeille, EST, Haghingel, EST, Haghingel, Fronzeille, EST, Haghingel, Fronzeille, EST, Haghingel, Fronzeille, EST, Haghingel, Fronzeille, EST, Haghingel, Fronzeille, F
1716	16284	NM_019229	l,m	member 4 small inducible cytokine	member 7
1717	985	NM_019233	b,cc	subfamily A (Cys-Cys), member 20, small inducible cytokine subfamily A20	small inducible cytokine subfamily (Cys-Cys), member 20, smell Indu- cytokine subfamily A20
1718	15503	NM 019237	k,x	procellagen C- endopeptidase enhancer, procellagen C-proteinase enhancer protein	[EST, Weakly similar to PCO1-HU PROCOLLAGEN C-PROTEININS ENHANCER PROTEIN PRECUR: [H sapiens]. Homo sapiens cDM- FLJ 12585 fis, clone NT2RM40007 MIX smusculus CSM01 (Clard 1) mRNA, complete cds, RIKEN cDN 2400001018 gene, expressed sequence AIO43106, membrane-by fitziade-riated protein, procollege andopeptidase enhance z, procollagen C-proteinase enhance z, procollagen C-proteinase enhance z,
					EST, Weakly similar to PCO1 HU PROCOLLAGEN C-P.OTENDE ENHANCER POTEIN PRECURE (H. sapiens), Homo sapiens cDNA FLU12558 fis, clone NT2RM40007 Mus musculus CSMD1 (Csmd1) mRNA, complete cds, RIKEN cDN 2400001018 gene, expressed sequence AI043106, membrane-ly fitzled-related protein, procollege
				procollagen C- endopeptidase enhancer, procollagen C-proteinase	endopeptidase enhancer, procolla C-endopeptidese enhancer 2, procollagen C-proteinase enhance
1718	15504	NM_019237	k,x	enhancer protein	protein ESTs, Weakly similar to INTERFE RELATED PROTEIN PC4 [R.norvegicus], interferon-related
1719	17908	NM 019242	I,v,cc,General	interferon-related developmental regulator 1	developmental regulator 1, interfer related developmental regulator 2

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VABUE	& HUMAN	HOMOROGUEA	BOOK IN THE REAL PROPERTY.		Any Postoi No. 43924-5939W Dog. No. 1793997
Seq. (D No.	Montflor	ConBank Acc/ Rot. Seq. ID-No.	Model Code (	Homologous Gang Name	*formallogous/Gluster/Name
1721	15259	NM_019259	d,f	complement component 1, q subcomponent binding protein	DNA segment, Chr 11, Wayne State University 182, expressed, complement component 1, q subcomponent binding protein, expressed sequence AA986492
1722	21443	NM_019262	aa,General	complement component 1, q subcomponent, beta polypeptide	'C1q-related factor, Homo sapiens, Similar to complement component 1, subcomponent, c polypeptide, clone MGC:17279 IMAGE:421272, mRNA, complete cds, complement componen 1, q subcomponent, beta polypeptide, complement component 1, subcomponent, c polypeptide, expressed sequence Al365742
1722	21444	NM 019262	t,General	complement component 1, q subcomponent, beta polypeptida	C1q-related factor, Homo sapiens, Similar to complement component 1, subcomponent, c polypeptide, clone MGC:17279 IMAGE:4212772, mRNA, complete cds, complement componen 1, q subcomponent, beta polypeptide, complement component 1, q subcomponent, c polypeptide, expressed sequence Al385742
				sodium channel, voltage gated, type VIII, alpha pobyeptide, sodium channel, voltage-gated,	iESTs, Highly similar to voltage gated Na channel Scan & Museculus, Mus musculus adult male hypothalamus CDNA, RIKEN hull-length enriched librery, clone:A230108N10, full inseline sequence, hypothetical profesi MsG15519, sodium channel, voltage gated, type VIII, eitha polypeptide, sodium channel, voltage-gated, type sight per polypedide, sodium channel, voltage- gated, type VIII, alpha polypeptide, sodium channel, voltage- polypeptide, sodium channel, voltage-
1723	1117	NM_019266	o,bb	type VIII, alpha polypeptide gap junction membrane channel protein alpha 5, gep junction protein, alpha	
1724	1145	NM_019280	w	alcohol dehydrogenase 1, complex, alcohol dehydrogenase 14 (class	ESTs, Weakly similar to ADHA MOUSE ALCOHOL. DEHYDROGENASE A CHAIN [M.musculus], alcohol dehydrogenase 1A (class I), alpha polypeptide, alcoho dehydrogenese 18 (class I), beta polypeptide, expressed sequence A1194826, nuclear receptor binding
1725	22220	NM_019286	c	I), alpha polypeptide	factor 1 EST, Highly similar to AR41, HUMAN ARP2R COMPLEX 41 KOA SUBUNIT [H.sapiena], ESTS, Moderately similar AN KOA SUBUNIT [H.sapiena], estinately similar AN KOA SUBUNIT [H.sapiena], estinately critical subunit A (41 KD), actin related protein 23 complex, subunit A (41 KD), actin related protein 27 complex, subunit B (41 KD), actin protein 27 subuni
1726	10015	NM 019289	I,m,t,x,General		AA408064, suppressor of profilin/p41 of actin-related complex 2/3

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TABLE	HUMAN	HOMOLOGUE A	EMOLEATONIA		Augy (0.0000) No. 44924 -59397 Dog, No. 179397
3:9, ID No.	liden(liller	Gorbant Ace./ Rof. Gory ID No.	മാണ് (കോ	Klomologova Gene Klemo	Himologous Cluster Namo
1726	10016	NM_019289	bb,General		IEST, Highty similar to AR41, HUMAN ARP2/3 COMPLEX 41 KDA SUBUN (H-aspiens), ESTs, Moderately similar to AR41, HUMAN ARP2/3 COMPLE 41 KDA SUBUNIT (H-aspiens), actin related protein 2/3 complex, subunit 1A (41 kD), actin related protein 2/3 complex, subunit 1A (41 kDs), actin related protein 2/3 complex, subunit 18 (41 kDs), expressed sequence AA400054, suppressor of profiliriy4 of actin-related complex 2/3
					RIKEN cDNA 2310015017 gene, RIKEN cDNA 4933411017 gene, ca division cycle 2 homolog A (S. pomt cell division cycle 2, G1 to S and G2 M, cyclin-dependent kinase-like 1 (CDC2-related kinase), cyclin- dependent kinase-like 2 (CDC2-rela kinase), cyclin-dependent kinase-like 3, expressed sequence Al852479.
1727	20751	NM_019296 .	. s		sententhreconine sinaes NIACATRE but CUB and Sush imultiple domains 1, ESTs. Highly similar to 173012 complement Casic Oraceptor, membrane-board from precursor LACOSE complement Casic Oraceptor (LACOSE complement regulatory probles, SIZ artigen precursor at LACOSE complement regulatory probles, SIZ artigen precursor at REFANNIES Multi-length enriched library, bear season of the complement component (LACOSE complement component (LACOSE Complement Component (LACOSE) cases 57047842 (full insert sequence, complement component (LACOSE) receiptor including Kings Bood group system complement complement complement complement confider trained in the complement confider to the complement confider to the complement confider to the complement confider to the complement confider to the complement confider to the complement confider to the complement confider complement confider confider confider confider confider confider confider confider
				solute carrier family 12 (sodium/chloride transporters), member 3, solute carrier family 12,	ESTs, Moderately similar to PC4180 inbeside-sensitive sodium-cholindo cotransporter [H-saplenes]. ESTs, Moderately similar to Initiacio-enesiti Na-CI cotransporter [M. nusculus]. ESTs, Weekly similar to BUMET ANDE-SENSITIVE SODIUM (PC7T ASSUM) similar to Maccine (PC7T ASSUM) similar to BUMET ANDE-SENSITIVE SODIUM (PC7T ASSUM) similar to BUMET ANDE-SENSITIVE SODIUM (PC7T ASSUM) similar to ANDES (PC7T ANDES (ANDES ANDE
1729	645	NM 019345	bb	member 3	family 12, member 3

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TABLE	S: HUMAR	HOMOROGÁTE	PARTENONA		Athy, Doetel No. 4492(-5039)/ Doe, No. 179339
80g. (D 110.	Kevillier	Content Acel Rol. Sog. (10 Mo	Model Gode	Homologous Gene (Namo	Homologous Gluster Namo
1731	3776	NM_019354			ISST, Nederaldy, sinitar ISBND, MICHAEL STATES
	1	013034	10,0		RIKEN cDNA 0910001023 gene, eukaryotic translation initiation factor (2, subunit 1 (alpha, 35kD ), eukaryotic
1732	1324	NM_019356	General		Iransiation initiation factor 2A ESG. nine (Celagna) homolog 1, ESG. nine (Celagna) homolog 2, ESG. nine (Celagna) homolog 3, ESG. Inine (Celagna) homolog 3, ESG. Inine homolog 3 (C. elegans), EST8, Moderately similar to ASS770 growth factor-responsive protein, vascular amonth muscle – nil (R.non-egicus), EST8, Weakly similar to ASS770 ST80 (Section 1) (Section 1) EST8, Weakly similar to ASS770 ST80 (Section 1)
1734	19577	NM 019377		tyrosine 3- monooxgenase/tryptophan 5-monooxgenase activation protein, beta polypeptide, tyrosine 3- monooxygenase/tryptopha n 5-monooxygenase activation protein, beta polypeptide	Commenting &
1735	24626	NM_019381	s	testis enhanced gene transcript, testis enhanced gene transcript (BAX inhibitor 1)	CGI-119 protein, RIKEN cDNA 5031406P05 gene, testis enhanced gene transcript (BAX inhibitor 1)
1736	744	NM 019622			ESTs, Highly similar to T42716 articylin 3. spice form 4 - mouse [M. musoulus]. 5. spice form 4 - mouse [M. musoulus]. 5. spice form 4 - mouse [M. musoulus]. 5. spice form 4 - mouse [M. musoulus]. 5. spice form 4 - mouse [M. musoulus]. 6. spice form 4 - mouse [M. musoulus]. 6. spice form 4 - mouse [M. musoulus]. 6. spice form 4 - mouse [M. musoulus]. 6. spice form 4 - mouse [M. musoulus]. 6. spice form 4 - mouse [M. musoulus]. 6. spice form 4 - mouse form 4 - musoulus]. 6. spice form 4 - musoulus].

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0.00		Marian Section 25.	AMMOTATATIONS!		Alty, Doctor No. 44921-5330 Doc No. 17939
300, (E	10en110c	r Roll-Seg. IDA	o Model Godos	Momologous Gono Namo	Homologous Chistor Namo
1737	20716	NM 019623	JC.		EST, Weakly similar to CPF1 RAT CYTOCHROME PEG 4F1 (R norvegicus), ESTs, Weakly simil to S45702 elusoritime-84 20- monocorpansase (1 saplems), Mun- 18100SM16 gene, done MCC758 (MAGE-346780, mRNA, complete or/pichrome P450 satoms 4F12, polypedides 1, cytochrome P450, subfamily IVF, polypedide 11, cytochrome P450, subfamily IVF, polypedide 1, cytochrome P450, subfamily IVF, polypedide 2, cytochrome P450, subfamily IVF, polypedide 2, cytochrome P450, entry polypedide 2, cytochrome P450, ent
1/3/	120/16	14M 019023	1 -	<u> </u>	EST, Moderately similar to 1713410
1738	20709	NM 019904		lectin, galactose binding, soluble 1, lectin, galactoside-binding, soluble, 1 (galactin 1)	beta galactoside sofuble lectin [H.sapiens]. EST. Moderately simila GALECTIN-1 [R.norvegicus]. Hume H.14 gene encoding beta-galactos! binding lectin, 3' end, clone 2, RitEc CDNA 22000098-12 gene, Rattus norvegicus mRNA for galectin-2 related protein, complete cds, lectin galactosa binding, soluble 1, lectin, galactoside-hinding, soluble 1 (galactin 1), lectin, galactoside-bindisoluble, 2 (galactin 3).
	20/00			, i gardan i	ESTS, Highly similar to (S)-2- HYDROXY-ACID OXIDASE, PEROXISOMAL (R.norvegicus), ES Highly similar to LUHU36 annexin II (H.sapiens), RIKEN cDNA 1110003P15 gene, RIKEN cDNA
1739	574	NM_019905	u,General	hydroxyacid oxidase (glycolate oxidase) 3, flydroxyacid oxidase 3 (medium-chain) hypothetical protein similar to mouse aldehyde	B430311C09 gene, annexin A2, annexin A2 pseudogene 2, caspase focultiment domain family, member expressed sequence AW215814, hydroxyacid oxidase (glycolate oxidase) 3, hydroxyacid oxidase 1, liver, hydroxyacid oxidase 2 (long chain), nucleolar protein 3 (apoptosi repressor with CARD domain)
1740	9096	NM_019908	li .	reductase 6 (renal), renal- specific oxido-reducatse	
1741	20457	NM 020073	i.General		parathyroid hormone receptor, parathyroid hormone receptor 1
1741	20458	NM_020073	General	1	parathyroid hormone receptor, parathyroid hormone receptor 1
1741	20460	NM 020073	General		parathyroid hormone receptor, parathyroid hormone receptor 1
1742	18713	NM_020075	r	eukaryotic translation initiation factor 5	DNA segment, Chr 12, ERATO Dol 549, expressed, KIAA1856 protein, eukaryotic translation initiation factor
1742	18715	NM_020075	,	eukaryotic translation initiation factor 5	DNA segment, Chr 12, ERATO Doi 549, expressed, KIAA1856 protein, eukaryotic translation Initiation facto 3-hydroxyanthranilate 3,4-
1743	20493	NM 020076			dioxygenase, RIKEN cDNA 0610007K21 gene, RIKEN cDNA 0610012J07 gene

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		GonBank/Acca/ Rafl, Sag. TD (to.	Model Gods	Nema (Cono	handigas dosta kara
1744	16375	NM 020976			angiotensin I converting enzyme (peptidyl-dipeptidase A) 2, kidney- specific membrane protein
					EST, Highly similar to THYMOSIN BETA-10 [R.norvegicus], ESTs, Hig similar to TYB4 MOUSE THYMOSII BETA-4 [M.musculus], expressed sequence AW544206, thymosin, be
1745	20816	NM_021261	k,General		110, thymosin, beta 4, X chromosom
					EST, Weakly similar to 60S RIBOSOMAL PROTEIN I,35A [R.norvegicus], EST, Weakly simila R33A MOUSE 50S RIBOSOMAL PROTEIN L35A [M.musculus], EST Weakly similar to R5HU35 ribosom protein L358 [H.sapiens], Homo sapiens cDNA FL/11509 fis, clone HEMBAT002166, RIKEN cDNA 12810431L15 gene, ribosomal proteil
1746	15335	NM 021264	a	ribosomal protein L35a	L35a, uncharacterized hypothalamu protein HSMNP1
			1.	transforming growth factor	
1747	18729	NM_021578	k,z	beta 1	transforming growth factor, beta 1 EST. Weakly similar to TGFB HUM.
1748	19060	NIM 021587		latent transforming growth factor beta binding protein	LATENT TRANSFORMING GROWT FACTOR BETA BINDING PROTEIN PRECURSOR [H sapiens]. ESTS. Weakly, similar to TGFB RAT LATEN TRANSFORMING GROWTH FACT EAT BINDING PROTEIN! GDNA 2310046A13 pens, hypothesis protein MGG 13010, latent transformi growth factor beta binding protein 1, latent transforming growth factor bet binding protein 2, lettert transforming growth factor beta binding protein 3
1749	17324	NM_021593	o,General		COT. U. J
1750	19679	NM_021653	General	deiodinase, iodothyronine, type I	ESTs, Moderately similar to TYPE I IODOTHYRONINE DEIODINASE [R.norvegicus], deiodinase, lodothyronine, type I
				deiodinase, iodothyronine.	ESTs, Moderately similar to TYPE I IODOTHYRONINE DEIODINASE [R.norvegicus], delodinase,
1750	19678	NM_021653	a,v,General	type I	iodothyronine, type I
1751	19665	NM 021688	u.General		potassium channel, subfamily K, member 1 (TWIK-1), potassium channel, subfamily K, member 3 (TASK-1), potassium channel, subfamily K, member 6 (TWIK-2), potassium channel, subfamily K, member 7

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JABUE	30 HUMAI	NHOMOVOGUE	ANNOTATIONS	en central acoustics	Aith, Dookel No. 44921-503
A.			Sign Store In 1962		Dos. No. 1798
seq.lia No	lotor (liffe	Real Section (1997)	d D. Model (000)	Homologova.Geno - Namo	Manualispone Chester Namo
					EST, Highly similar to GUANNE  NUCLECTION ERLEASING PRO (Rnovegicus), EST, Weakly simil 2004277, quantien rucleotide- releasing protein (H sapiens), EST- Highly similar to 2004927A quanti- Highly similar to 2004927A quanti- Highly similar to 2004927A quantien (H sapiens), EST, Weakly similar S28407 quantien nucleotide-exchasing fact guartien nucleotide-exchasing fact guartien nucleotide-exchasing fact quantien nucleotide-exchasing fact quantien-functioned exchange fact directly activated by cAMP, Refutur rowegous strain Walar FARS quantien- curvegous strain Walar FARS quantien- curvegous strain Walar FARS quantien- guartien function (L quantien function)  mRNA, partial cds, quantien rucles mRNA, partial cds, quantien rucles measing factor 2, Explorit
1752	19667	NM_021690	m		oncogene)
1754	22916	NM 021740	a	prothymosin alpha, prothymosin, alpha (gene sequence 28)	ESTs, Highly similer to THYA_HUI PROTHYMOSIN ALPHA [H.sapier RIKEN cDNA 2610009£16 gene, prothymosin a14, prothymosin alpl prothymosin, alpha (gene sequenci 28)
					CD14 antigen, ESTs, Weakly simil CD14 RAT MONOCYTE
1755	19710	NM 021744	lt .		PRECURSOR [R.norvegicus]
					CD14 antigen, ESTs, Weakly simil CD14 RAT MONOCYTE DIFFERENTIATION ANTIGEN CD
1755	19711	NM_021744	_lt		PRECURSOR [R.norvegicus]
1756 1757	19712	NM_021745	í Íjky,z		IEST, Weakly similar to 138975 nuc orphan receptor LXR-alpha [H.sapiens], ESTs, Moderately sim to JC4014 steroid hormone-nuclea receptor NER [H.sapiens], express sequence Al957360, nuclear recep subfamily 1, group H, member 3, nuclear receptor subfamily 1, group member 4
1797	1002	D1111_02 1750	U.N.J.A	<del> </del>	Homo sapiens, clone MGC:18185
1757	19824	NM_021750	Ja,bb		IMAGE:4155381, mRNA, complete cds, KIAA0251 hypothetical proteir RIKEN cDNA 1110027M19 gene, cysteine sulfinic acid decarboxylas related protein 2, gutamic acid decarboxylase 2
1758	25198	NM_021754	h	1	DKFZP566J153 protein, ESTs,
1758	20035	NM_021754	b,n,s,v,General		Moderately similar to T17299 hypothetical protein DKFZp564H2171.1 [H.sapiens], nucleolar protein NOP5/NOP58

TABLE	B: MUMAN	MOMOROGUE A	SHORMONS		Aug. Docket No. 44921-50390 Dos. No. 179339
eg, (D) No.		Gen Band Acc./ Rad. Soc. (D.No.	Model Gode"	Hemiclogous Gono Namo iz	Homolonous Cluster Name
				pleiotropic regulator 1 (PRL1, Arabidopsis homolog), pielotropic regulator 1, PRL1 homolog	IEST, Weathy similar to LIST MOUSE PENATELERA-CHYATING PACTOR PENATELERA-CHYATING PACTOR PENATELERA-CHYATING PACTOR ACETYL-HYOROU.ASE IB AJPHA SUBUNITY R. PORCEPOLIS I. ST. Weathy similar to LIST MOUSE PLATELERA-CHYATING PACTOR ACETYL-HYOROU.ASE IB AJPHA CHYATING PACTOR PENATELERA-CHYATING PACTOR ACETYL-HYOROU.ASE IB AJPHA SUBUNITARIA PENATELERA PENA
1759	20090	NM_021757	m	(Arabidopsis)	REC14 ESTs, Weakly similar to COPP RAT
					ICOATOMER BETA' SUBUNIT [R.nonegius], Mus musculus, Simili Io RIKEN dDNA 150004 1N16 gene, clone MGC: 12068 IMAGE: 3708188, mRNA, complete cds, RIKEN dDNA 251004007 gene, coationer protein complex, subunit beta 2 (beta primo) pripassed sequence CAY0750, pripassed sequence CT7982, glutamale rich WDr pepasi protein GRWD, platelet-activating factor cephilystories, isoform 1b, beta 1
1760	17885	NM_021765	aa		Jun-B oncogene, jun B proto-
1762	20161	NM_021836	cc,General		oncogene
					DKFZPSSN1922 protein, ESTs, Moderately similar to S22995 restin [H.sapiens], ESTs, Weakly similar to H2294 cytoplasmic linker protein CLIP-115 - rat [R.norvegicus], RIKEN CDNA 15000597 il gene, RIKEN CDNA 451429407 gene, RIKEN CDNA 451429407 gene, RIKEN CDNA 451429407 gene, RIKEN PLAN 451429407 gene, RIKEN CDNA 451429407 gene, RIKEN CDNA 451429407 gene, RIKEN CDNA 451429407 gene, RIKEN CDNA 451429407 gene, RIKEN CDNA 451429407 gene, RIKEN CDNA 451429407 general restauration of the Richard Control of the RIKEN GRADULT RESTAURANCE CONTROL RES
1764 .	1203	NM_021997	k,z	cytoplasmic linker 2	filament-associated protein)
				,	EST, Moderately similar to PLM RAT- PHOSPHOLEMAN PRECURSOR (R. norvegicus), EST, Weakly similar to PLM, HUMAN PHOSPHOLEMAN PRECURSOR (H. sapiens), FXYD domain-containing ion transport or guistor 1, FXYD domain-containing ion for transport regulator 1 or transport containing ion transport regulator 3, FXYD domain-containing ion transport regulator 4, FXYD domain-containing regulator 4, FXYD domain-containing ion transport regulator 6, FXYD
					domain-containing ion transport
765	23151	NM 022005 .	h :		regulator 7, hypothetical protein MGC13186

2.00		HOMOLOGUEA			Anty, Docton No. 4492, 46990 Doc. No. 179930
300 ID No.		Configuration (Acc.) Ref. Seq. ID No.		Momulogous Garie Name + +	Homologous Cluster Nams
					EST, Moderately similar to HXK3_HUMAN HEXOKINASE TYPE III [H. sapiena], EST, Weakly similar I HXK2 MOUSE HEXOKINASE TYPE (M.musculus), ESTS, Moderately similar to HXK2 MOUSE HEXOKINASE TYPE II [IM. musculus, ESTS, Weakly similar to HXK2 MOUSE HEXOKINASE TYPE II (M.musculus), haxokinase 2,
1767	17101	NM_022179	bb	-	hexokinase 3 (white cell) EST, Moderately similar to
1767	17100	NM_022179	bb		HXK3_HUMAN HEXOKINASE TYPE  III (H.sapiens), EST, Weakly similar t HXK2 MOUSE HEXOKINASE TYPE [M.musculus), ESTs, Moderately similar to HXK2 MOUSE HEXOKINASE TYPE II [M.musculus] ESTs, Weakly similar to HXK2 MOUSE HEXOKINASE TYPE II [M.musculus], hexokinase 2, hexokinase 3 (white cell)
1707	17/100	14M_022179	00	<del></del>	expressed sequence AA986699,
1768	20257	NM_022180	w,General		hepatic nuclear factor 4, hepatocyte nuclear factor 4, alpha
	1				expressed sequence AA986699, hepatic nuclear factor 4, hepaticcyte
1768	25699	NM 022180	i		nuclear factor 4, alpha
1768	10860	NM_022180	р		
1769	23780	NM 022183	k,x	topoisomerase (DNA) II alpha, topoisomerase {DNA} II alpha (170KD)	ESTs, Moderately similar to A4043 DNA topoisomerase [H.sapiens], ESTs, Moderately similar to TP2A MOUSE DNA TOPOISOMERASE II, ALPHA [M.musculus], topoisomerase (DNA) II alpha, topoisomerase (DNA) libeta (180KD)
					expressed sequence AI790318, expressed sequence AI836570,
1770	20312	NM 022224		1	phosphotriesterase related
1771	6585	NM_022266	d.p.,cc		WNT1 inducible signaling pathway protein 1, WNT1 inducible signaling pathway protein 2, WNT1 inducible signaling pethway protein 3, connective tissue growth factor
1772	17161	NM_022298	l.v.cc.General		ESTs, Highly similar to A23035 tubuli alpha chain [H.sapiens], tubulin alpha 1, tubulin alpha 2, tubulin alpha 3, tubulin alpha 6, tubulin, alpha 2, tubulin, alpha 3, tubulin, alpha, ubiquitous
1772	17162	NM 022298	u		ESTs, Highly similar to A23035 tubuli alpha chain [H.sapiens], tubulin alpha 3, 1, tubulin alpha 2, tubulin alpha 3, tubulin alpha 6, tubulin, alpha 2, tubulin, alpha 3, tubulin, alpha, ubiquitous
					ESTs, Highly similar to A23035 tubuli alpha chain [H.sapiens], tubulin alpha 1, tubulin alpha 2, tubulin alpha 3, tubulin alpha 6, tubulin, alpha 2, tubulin, alpha 3, tubulin, alpha,
1772	17160	NM 022298	h,	i	ubiquitous

100		HOWOLOGUE A		Co. Care and	Ally, Dociol No. 43924-50390 Doc. No. 179309
3009.11D No.	dentifier	GonBank Ace/ Ref. Seq. (D) No.	Model Code	Homologous Gara Nama	Hemologous Cluster Namo
1772	17158	NM 022298	a		ESTs, Highly similar to A23035 tubul alpha chain [H. saplens], tubulin alph a], tubulin alpha a], tubulin alpha a], tubulin alpha 6, tubulin, alpha 2, tubulin, alpha 3, tubulin, alpha, tubulin, alpha
1773	11454	NIM 022284	i,aa,General		EST, Moderately similar to E Chain in Human Pcn (H.sapiens), proliferating
1773	11455	NM_022381 NM_022381	I,General		cell nucleer antigen EST, Moderately similar to E Chain E Human Pcn [H.sepiens], proliferating
1774	13480	NM 022390	s	1	RIKEN cDNA 2610008L04 gene, quinold dihydropteridine reductase
1775	15184	NM 022391	z	pituitary tumor- transforming 1	
1776	22413	NM 022392	h		EST, Highly similar to ISI1, HUMAN INSULIN-INDUCED PROTEIN 1 [H.saplens], ESTs, Highly similar to INSULIN-INDUCED GROWTH RESPONSE PROTEIN CL-6 [R.norvegicus], Mus musculus, clone MCC:18904 IMAGE:420711, mRNA complete dis, insulin induced gene 1 Insulin Induced protein 2
1776	22414	NM 022392	0		IEST, Highly similar to ISI1_HUMAN INSULIN-INDUCED PROTEIN 1 IH sapianal, ESTs, Highly similar to INSULIN-INDUCED PROWTH RESPONSE PROTEIN CL-6 [R.norvagicus], Mus musculus, clone McC:18904 (MAGE:420711, mRNA complete cds, insulin induced gene 1 linsulin induced protein 2
					C-byte (calcium dependent, cacholydrafe recognition domain) lectin, superfamily member 10, C-byte (cacholydrafe recognition domain) lectin, superfamily member 10, C-byte (calcium dependent) cacholydrafe recognition domain) lectin, superfamily member 6, C-byte (calcium dependent) lectin, superfamily member 6, CDT2 artispen, Mem sunuculas 1,3-450, mRM, Max musculus 1,3-450, mRM Mus musculus 1,3-450, mRM Musculus 1,3-
1777	22499	NM_022393	t		dependent) ESTs. Weakly similar to CALRETICULIN PRECURSOR [R. norvegicus], Homo sapiens, Simila to RIKEN CDNA 1700031L01 gene, clone MGC:26577 IMAGE:4822010, mRNA, complete cds. RIKEN CDNA 1700031L01 gene, RIKEN CDNA

	2 3	HOMOROGUEA	RIGITATORIA	grand and an army of the same	- Ally, Dool of No. 43229-513000 Doc. No. 1703307
ese Di Xea		: San Bank Accul pRof. Sag. ID No.		женическую Сото Хино	
					ESTs, Weakly similar to CALRETICULIN PRECURSOR (R.norvegicus), Homo sapiens, Simila to RIKEN cDNA 1700031L01 gene, clone MGC.26577 IMAGE:4822010, mRNA, complete cds, RIKEN cDNA 1700031L01 gene, RIKEN cDNA
1779	24539	NM_022399	у		6330586I20 gene, calreticulin ESTs, Highly similar to I39161
1780	1141	NM_022401	o,General		dystonia soform 2 (H.sapiens). 'EST's Weakly sinilar to 14272.3 actin briefly protein ACF, neural isoform 1 - mouse (fragment) (M.musculus). Leman colled-coll protein, actin-crosslinking protein 7, expressed sequence AAS91047, expressed sequence AWS54249, plectin 1, intermediate filament binding protein, 500KD, serologically defined colon cancer antilen 8
					EST, Highy similar to RSHUPO acidic mbosomal protein PC, optosicili (H-sapiena), EST, Moderately similar RIAO RAT 608 ACIDIC RIBOSOMAL PROTEIN PO (R-nonepicus), EST, Highly similar to RSHUPO acidic flocumal protein PC, optosic RSHUPO acidic RSHUPO acidic RIBOSOMAL PROTEIN PO (M-musculus), RICHA CONA (M-musculus), RICHA CONA 2510012022 gene, acidic ribosomal phosphoprotein PO, hypothetical
1781	1069	NM 022402	0		protein IMAGE3455200, ribosomal protein, large, P0
	8211	NM_022500	j,n,s	ferritin light chain 1, ferritin,	ESTs, Highly similar to FRHUL ferritin light chain [H.sapiens]. ESTs, Moderately similar to FRHUL ferritin light chain [H.sapiens], PRO0470 protein, RIKEN cDNA 4933416E14
1782	0242	NIA 000500		ferritin light chain 1, ferritin,	ESTs, Highly similar to FRHUL femilin light chain [H.sapiens], ESTs, Moderately similar to FRHUL femilin light chain [H.sapiens], PRO0470 protein, RIKEN cDNA 4933416E14 gene, femilin light chain 2, femilin light
1782	8212	NM_022500	n,s	light polypeptide	polypeptide EST, Moderately similar to OSHU7L
1783	6815	NM_022503	s	cytochrome c oxidase subunit VIIa polypeptide 3 (liver), cytochrome c oxidase, subunit VIIa 3	cytochrome-c oxidase [H.sapiens], cytochrome c oxidase subunit VIIa polypeptide 2 (fiver), cytochrome c oxidase, subunit VIIa 1, cytochrome c oxidase, subunit VIIa 1, cytochrome c
1784	4259		q,w		EST, Moderately similar to T08720 ribosomal protein L36 [H.sapiens]. ESTs, Weakly similar to RL36 [HUMAN 60S RIBOSOMAL PROTEIN L36 [H.sapiens], RIKEN cDM 1110038G14 gene, ribosomal protein L36

TABLE	3: CTUMAX	HOMOTOGAE V	200		Atty. Docket No. 4/1920-st Doc. No. 17/9
Sog 10 No.	) Identifier	Gooder (k.Acce/ Ref. Sen. 10 No.	Montal Gode	Handigors Care Name	Hemologous Otretor Namo
1785	41611	NM 022509			ESTs. Weasty similar to SNN1 HUMAN SURVIVAL MC NEURON PROTEIN 1 H. sapie RIKEN CDN. 24 10004JS 24 10004JS 29 spicing factor 30, survival of meuron-related, survival motor neuron pseudogo survival of motor neuron 1, telos survival of motor neuron 1, telos survival of motor neuron 1, telos survival of motor neuron 1, telos survival of motor neuron 1, telos survival of motor neuron 2, centomeric
1786	2236	NM 022512	V.Z		ESTs, Weatly similar to acyl-Ci- denhytogenase (R novegicus), cDNA 150003209 gene, RIKE- CONA 2310016015 gene, acyl- CONA 2310016015 gene, acyl- Coenzyme A dehydrogenase, s- chain, acyl-Coenzyme A dehydrogenase family, member Coenzyme A dehydrogenase, Coenzyme A dehydrogenase (Coenzyme A growth of the Coenzyme A phydrogenase), Coenzyme A dehydrogenase, Coenzyme dehydrogenase, Coenzyme dehydrogenase, Coenzyme dehydrogenase, Coenzyme dehydrogenase, Coenzyme dehydrogenase, Coenzyme dehydrogenase, Coenzyme
1787	3026	NM_022514	ia .		EST, Weakly similar to 60S RIBOSOMAL PROTEIN L27 [R.norvegicus], EST, Weakly sin S43505 ribosomal protein L27, cytosotic [H.sapiens], ribosomal protein L27
1787	3027	NM_022514	a.q.r,aa		EST, Weakly similar to 60S RIBOSOMAL PROTEIN L27 [R.norvegicus], EST, Weakly sin \$43505 nibosomal protein L27, cytosolic [H.sapiens], ribosomal protein L27
1788	2696	NM_022515	a,d		ESTs, Highly similar to RL24_HI 60S RIBOSOMAL PROTEIN L2 [H.saplens], RIKEN cDNA 06100 gene, ribosomal protein L24
1788	2697	NM_022515	n,w,aa		ESTs, Highly similar to RL24_HI 60S RIBOSOMAL PROTEIN L24 [H.sapiens], RIKEN cDNA 06100 gene, ribosomal protein L24
1789	3900	NM_022516	h	neural polypyrimidine tract binding protein, polypyrimidine tract binding protein	ESTs, Moderately similar to S15 polyphyrindine trac-binding portian IR. Anonegicus, ESTs, Weakt similar to S1552 polyphyrindine binding protein 1 - rat [R. Inonegi RIKEN CDNA 26 t0036.1 3 gene expressed sequence AW107884 heterogenous nuclear rail observations to the protein the second polyphyrindine tract binding protein polyphyrindine tract

Distriction   Company	TABLE	: HUMAN	HOMOROGUEA	EXIONATOXIE	William III	Ally, Doekol No. 44924-5059 Dog. No. 179383
AMINOTRANSPERASE PRECUE   R.P. novegeus.  RIKEN CDMA   1300019F02 pane, RIKEN CDMA   1300019F02 pane, RIKEN CDMA   1300019F02 pane, RIKEN CDMA   1300019F02 pane, RIKEN CDMA   1300019F02 pane, RIKEN CDMA   1300019F02 pane, RIKEN CDMA   1300019F02 pane, RIKEN CDMA   1300019F03 pane   13000019F03 pane   13000019F03 pane   13000019F03 pane   13000019F03	Seg. ID No.	Lienlitter	GenBank Acc./	SESSESSES OF THE PARTY OF THE P	Homologens Gano Name#	Homologou's Cluster Nama
1791   4242   NM, 022531   C						ESTs, Highly similar to ORNITHINE AMINOTRANSFERASE PRECURS( [R.norvegicus], RIKEN cDNA 1300019H02 gene, RIKEN cDNA 2900006B13 gene, hypothetical protein MGC15875, omithine
F_L14606 fs, cione NTZPP-10006   RREN COMA 1110014712 gene,   RREN COMA 1110014712 gene,   RREN COMA 1110014712 gene,   RREN COMA 1110014712 gene,   RREN COMA 1110014712 gene,   RREN COMA 1110014712 gene,   RREN COMA 1110031712 gene,   RREN COMA 1110031712 gene,   RREN COMA 1110031712 gene,   RREN COMA 111001471 gene   RREN COMA 111001471 gene   RREN COMA 111001471 gene   RREN COMA 111001471 gene   RREN COMA 111001471 gene   RREN COMA 111001471 gene   RREN COMA 111001471 gene   RREN COMA 111001471 gene   RREN COMA 111001471 gene   RREN COMA 1110001471 gene, expressed sequence AA0808C, expressed   RREN COMA 1110001471 gene, expressed   RREN COMA 1110001471 gen	1791	4242	NM_022521	с		aminotransferase (gyrate atrophy)
ESTR, Weskly similar to ASSGUAL	1792	4412	NM 022523			FLJ14609 fis, clone NT2RP1000944 RIKEN cDNA 1110014F12 gene, RIKEN cDNA 1110031F12 gene, RIKEN cDNA 2700063A19 gene, transmembrane 4 superfamily memi (tetraspan NET-2), transmembrane
pissmolipin - risi (R. novergicus), Et	1792	4412	NW_022323	f	<del> </del>	
Cyclophilin & Complexed With   H aspiring, RIKER NOM   H H aspiring, RIKER NOM   H H aspiring, RIKER NOM   H H aspiring, RIKER NOM   H H aspiring, RIKER NOM   H H aspiring, RIKER NOM   H H aspiring, RIKER NOM   H Aspirin	1793	6641	NM_022533	General		PLASMOLIPIN (H. sapiane), Homo sapians cDNA-L14787 fir, ctone NT2RP4000878, highly similar to MYELOID UPREGULATED POTE Mus muscusus, Similar to BENE protein, ctone MCC:19907 IMAGE:420588, mRNA, complete cds, RIKEN cDNA 2700018N07 gen expressed sequence A4461833, mys and lymphocyte protein; T-cell differentiation protein, plasmolipin
1958   1959						Cyclophilin B Complexed With [H.sapiens], RIKEN cDNA 1110060010 gene, RIKEN cDNA 3732410619 gene, RIKEN cDNA 4833408F11 gene, expressed sequence A4508962, expressed sequence A450818, peptidylprolyl isomerase lisomerase B, peptidylprolyl isomerase 15000000000000000000000000000000000000
Test				a		B (cyclophilin B)
SST, Highly almitat to IMBB, MOUS MITOCORPILAL IMPORT IN IMB (IMB MITOCORPILAL IMPORT IN IMB (IMB MITOCORPILAL IMPORT IN IMB (IMB MITOCORPILAL IMPORT IN IMB (IMB MITOCORPICAL IMPORT IN IMB (IMB MITOCORPICAL IMB MITOCORPICAL IMB MITOCORPICAL IMB MITOCORPICAL IMB MITOCORPICAL IMPORTANCE					<del></del>	<del></del>
796 9298 NM, 022541 o (yeast)    STI, Weakly similar to A Chain A.   Crystal Structure Comitine   Decarboxylas From Moute, The   Terminus, To 1.6 Angstrom Resolu   M. Mascaludi, ESTs, weakly and   ORNITHINE DECARBOXYLASE   R. nonegale, Omitine   decarboxylase   omitine   decarboxylase   omitine   decarboxylase   omitine						SUBUNIT TIM8 B (DEAFNESS DYSTONIA PROTEIN 2 HOMOLOG [R.norvegicus], translocase of inner mitochondrial membrane 8 (yeast)
Crystal Structure Omithine Decarboyase From Moure, Truncated 37 Residues From The Terminus, To 1-6 Angstrom Resolu [M. musculus], ESTs, Wealdy simila CORNTI-INE DECARBOYULASE [R. norvegious], Omitine decarboyase, omithine decarboyase antizyme inhibitor, decarboyase antizyme inhibitor,	1796	9296	NM_022541	0		(yeast)
I I I I I I I I I I I I I I I I I I I						Crystal Structure Omithine Decarboxylase From Mouse, Truncated 37 Residues From The C- Teminus, To 1.6 Angstrom Resoluti (M. musculus). ESTS, Weskly similar ORNITHINE DECARBOXYLASE (R. norvegicus). Omitine decarboxylase, omithine decarboxylase, on on thin decarboxylase, on thin decarboxylase, on thin decarboxylase, on the decarboxylase on the property of decarboxylase and yrun enhibitor,
						omithine decarboxylase, structural, omithine decarboxylase-like protein

		HOMOroguev			Auly, Dooket No. 44994-6036V Doc, No. 1793837
999, (D No.	attentifita.	SonForts Accel and Sog ID No.	Modd Code	Clamatagaus Gara Nama	Aumorgous Gustartiems
1799	20781	NM_022591	, z		apoptotic protease activating factor, telomerase associated protein 1, telomerase-associated protein 1
1800	20803	NM_022592	n		RIKEN cDNA 4933401119 gene, hypothetical protein DKFZp434L1717 transketolase, transketolase (Wernict Korsakoff syndrome), transketolase- like 1
1801	20925	NM_022594	q	encyl Coenzyme A hydratase 1, peroxisomal, encyl coenzyme A hydratase 1, peroxisomal	AU RNA-binding protein/encyt- coenzyme A hydratase, EST, Weakly, similar to ECH, HUMAN DELTA3,5- DELTA2,4-DIENOYL-COB ISOMERASE PRECURSO [It-sapiens], RIKEN cDNA 28100098/20 gene, encyt Coenzyme Hydratase 1, peroxisomal, encyt coenzyme A hydratase 1, peroxisomal expressed sequence A461733
1802	20944	NM 022597	aa	1	cathepsin B, lipocalin 7, tubulointerstitial nephritis antigen
					EST, Highly similar to DM25, RAT MMTOCHONDRIAL OUTER MEMBRANE PROTEIN 25 (MPW16) [P.norvegicus]. EST, Weakly similar to DM25, RAT MITOCHONDRIAL OUTER MEMBRANE PROTEIN 25 (MPW16) [R.norvegicus]. Erobi (MPW16) [R.norve
1803	21024	NM_022599	o,General		binding protein H2B histone family, member D, H2B
1804	2250	NM_022643	General		histone family, member G, H2B histone femily, member K, RIKEN cDNA 2610022J01 gene, expressed sequence Al413321, expressed sequence R74621
1805	17567	NM 022672	ay	ribosomal protein S14	EST, Moderately similar to 40S RIBOSOMAL PROTEIN S14 (R.norvegicus), EST, Weakly similar tr A25220 ribosomal protein S14, cytosolic (H.sapiens), EST, Weakly similar fu JEC197 indosomal protein S14 - mouse (M.musculus), ESTs, Highly similar to A25220 ribosomal protein S14, cytosolic (H.sapiens), irbosomal protein S14
				H2A histone family,	EST, Weakly similar to histone H2A.F/Z variant [H.sapiens], ESTs, Highly similar to HISTONE H2A.Z [R.norvegicus], H2A histone family, member Z, RIKEN cDNA C530002L11
17661	17661	NM_022674	bb	member Z	gene, histone H2A.F/Z variant
1807	24563	NM 022676	b	protein phosphatase 1. regulatory (inhibitor) subunit 13.	[EST, Weakly similar to IPP1_HUMAN PROTEIN PHOSPHATASE INHIBITOR 1 [H.sapiens], ESTs, Weakly similar to IPP1_HUMAN PROTEIN PHOSPHATASE INHIBITOR 1 [H.sapiens], RINEN CDNA 4390579P15 gene, protein phosphatase 1, regulatory (inhibitor) subunit 1A, protein phosphatase 1 (regulatory (inhibitor) subunit 1A, protein phosphatase 1 (regulatory (inhibitor) subunit 3A, protein phosphatase 1, regulatory (inhibitor) subunit 3A, protein phosphatase 1, regulatory (inhibitor) subunit 3A, protein phosphatase 1, progulatory (inhibitor) subunit 3A, protein phosphatase 1, progulatory (inhibitor) subunit 3A, protein phosphatase 1, progulatory (inhibitor), protein phosphatase 1, progulatory (inhibitor), protein phosphatase 1, progulatory (inhibitor), protein phosphatase 1, progulatory (inhibitor), protein phosphatase 1, progulatory (inhibitor), protein phosphatase 1, progulatory (inhibitor), protein phosphatase 1, progulatory (inhibitor), protein phosphatase 1, progulatory (inhibitor), protein phosphatase 1, progulatory (inhibitor), protein phosphatase 1, progulatory (inhibitor), protein phosphatase 1, progulatory (inhibitor), protein phosphatase 1, progulatory (inhibitor), protein phosphatase 1, progulatory (inhibitor), protein phosphatase 1, progulatory (inhibitor), protein phosphatase 1, progulatory (inhibitor), protein phosphatase 1, progulatory (inhibitor), protein phosphatase 1, progulatory (inhibitor), protein phosphatase 1, progulatory (inhibitor), protein phosphatase 1, progulatory (inhibitor), protein phosphatase 1, protein p

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		A ARRIVE DAY 1 1 1 1 1	BOUGHT	DOMESTIC STATE	Dos. No. 1793997
900, E	ideniiiler	George and Account	Model Gode	Memelegous Gene Name	Momologous Ciliator Namo
1807 1808	24564	NM_022676 NM_022686	b,x	protein phosphatase 1, regulatory (inhibitor) subunit 1A	EST, Weakly similar to IPP1_HUMAN PROTEIN PHOSPHATASE INHIBITOR 1 [H-sapiens], ESTs, weakly similar to IPP1_HUMAN PROTEIN PHOSPHATASE INHIBITOR 1 [H-sapiens], RIKEN cDNA 4930579P15 gene, protein phosphatase 1, regulatory (inhibitor) subunit 1A, protein phosphatase 1, regulatory (inhibitor) subunit 14 (dopamine and cAMP regulated phosphatase).
1809	20508	NM_022688	9	-	
1810	17586	NM_022694	k		EBNA-2 co-activator (100kD), ESTs, Moderately similar to 138968 100 kDa coactivator [H.saplens]
1811	17730	NM_022697	a		DNA segment, Chr 7, Wayne State University 21, expressed, EST, Highly similar to S55915 ribosomal protein L28 [H. sapiens], ESTs, Highly similar to S55915 ribosomal protein L28 [H. saplens], ribosomal protein L28
					DNA segment, Chr 7. Wayne State University 21, expressed, EST, Highly similar to S55915 ribosomal protein L28 [H. sapiens], ESTs, Highly similar to S55915 ribosomal protein L28
1811	17729	NM_022697	q		[H.sapiens], ribosomal protein L28
1812	154	NM_022849	·	crp-ductin, deleted in malignant brain tumors 1	CD163 antigen, ESTs, Highly similar to 139005 M130 antigen precursor, pictor 139005 M130 antigen precursor, pictor 139005 M130 antigen precursor, pictor 139005 M130 antigenat brain tumors 1, fectin, galactoside-binding, soluble, 3 binding protein, macrophage scavenger receptor 2, peptidylprotein 1somerase C-associated protein
1813	127	NM 022855			EST, Weakly similar to KC13 RAT CASEIN KINASE I, CAMMA 3 ISOFORM [R. norvegicus], ESTs, Highly similar to KC13 RAT CASEIN KINASE I, CAMMA 3 ISOFORM [R. norvegicus], ESTs, Weakly, similar to casein kinase [M. musculus], RIKEN CDNA 300002KI7 gene, Casein Kinase I, aplan i, casein Kinase 1, aplan i, casein kinase 1, aplan i, casein kinase 1, aplan i, casein
1013	121	INN_UZZG55	n .		gamma 3 ESTs, Highly similar to FXD3 HUMAN
					FORKIEAD BOX PROTEIN DS  Happiens, EST., Weakly similar to FXD3, HUMAN FORKIEAD BOX PROTEIN DS (H. sapiens), ESTs, Weakly similar to HFH1 RAY HEPATOCYTE NUCLEAR FACTOR 3 FORKIEAD HOMOLOG 1 (IR norvegicus), HNF-3forkhead homolog 1 like, expressed sequence Al386822, forkhead box D1, forkhead box D2, forkhead box D1, forkhead box D2, forkhead box D3, winged
1814 1816	152	NM_022858 NM_022948	j z	ļ	helix/forkhead transcription factor
1816	18103	NM 022948	u L		<del>                                     </del>

	SOMETH WAY	HOMOLOGUEIA	PARTATIONS	F	Allm. Docket No. 44924-5089
MADE 14.		A STATE OF THE STA			Dog, No. 170999
Scg. ID Vo.	keniifler	GeriBank Acc/ Refl-Seq. ID No	Mrtidicions	Komilegous Gana Kamay	Homologous Gluster Name
1817	21491	NM_022951	w		CAT56 protein, EST, Highly similar CAG13 HUMAN COLLAGEN ALPH (100) CHAIN PRECURSOR Haspiena), EST, Weakly similar to A28996 protine-tich protein M14 precursor—nouse (Mmusculus), EM Weakly similar to JEC991 F819 por (Haspiena), Calagen, hype III, Jakoba (Libriers-Darrice syndrome type IV, autosomal dominent), procellagina, hype III, abba 1, protine rich protein protein chip orbota 2, protein protein chip orbota 2, protein protein chip orbota 3, protein protein chip orbota 3, protein protein chip orbota 3, protein protein chip orbota 4, protein protein chip orbota 3, protein protein chip orbota 4, protein protein chip orbota 4, protein protein chip orbota 4, protein protein chip orbota 4, protein protein chip orbota 4, protein protein chip orbota 4, protein protein chip orbota 4, protein protein chip orbota 4, protein protein chip orbota 4, protein protein chip orbota 4, protein protein chip orbota 4, protein protein chip orbota 4, protein protein chip orbota 4, protein protein chip orbota 4, protein protein chip orbota 4, protein protein chip orbota 4, protein protein protein chip orbota 4, protein prot
1818	15742	NM_022958	y		phosphatis/incositol 3-kinase, Il-tageingi, Ficto Shinding protein rapamyoin associated protein 1, 1-be II-tageingi, Ficto Shinding protein 1, 1-be II-tageingi, anodarately, sinda HACSEMATO, anodarately, sinda HACSEMATO, anodarately, sinda HACSEMATO, AIREM COMM. 241009EUT game, Despatalisy incolled 3-kinase, calaly Incophatis/gincolled 3-kinase, calaly Despatalisy incolled Skinase, calalytic, beta polypeptide phosphatis/gincolled 3-kinase, class 3, rapamyoin and FKSEM2 target-1 jorotein —
819	9286	NM 023027	tw.		ELAV (embryonic leibila, laboramal vision, Drosophia-like 6 (tha uniferion), Description (1), ESTI, Highly similar to HJUD RA, PROSENSE (LIBERTIES ANTIGEN PROSENSE (LIBERTIES ANTIGEN HUD HOMOLOG (R.norvegicus), ESTI, Moderatley similar to HUD RECKETHALOMYELITIS ANTIGEN HUD HOMOLOG (R.norvegicus), ESTI, Moderatley similar to HUD RECKETHALOMYELITIS ANTIGEN HUD HOMOLOG (R.norvegicus), ESTI, Moderatley similar to University similar to University and the similar to the si
819	9286	NM_023027	t,w		cytoplasmic 1 RIKEN cDNA 2610208K14 gene,
					VRK3 for vaccinia related kinase 3, casein kinase 1, alpha 1, casein kinase 1, delta, casein kinase 1,
820	23215	NM_023102	z	CCAAT/enhancer binding	epsilon, casein kinase 1, gamma 2 CCAAT/enhancer binding protein
821	21238	NM_024125	cc,General	protein (C/EBP), beta	(C/EBP), beta
821	21239	NM 024125	cc,General	CCAAT/enhancer binding protein (C/EBP), beta	CCAAT/enhancer binding protein (C/EBP), beta
				growth arrest and DNA- damage-inducible 45	growth arrest and DNA-damage- inducible 45 alpha, growth arrest and

See E	See Brook	I:00000000Etu		2000 美工作品	Attp: Dooket No. 44920-50397 Doo. No. 179889
	Contiller	Genfank Accal acta Seq. 10 No.		Homologous Gana Xama	Monalogous Gluster Namo
1822	354	NM_024127	i,n,General	growth arrest and DNA- damage-inducible 45 alpha, growth arrest and DNA-damage-inducible, alpha	growth arrest and DNA-damage- inducible 45 alpha, growth arrest an DNA-damage-inducible 45 beta, growth arrest and DNA-damage- inducible, alpha
				growth arrest and DNA- damage-inducible 45 alpha, growth arrest and DNA-damage-inducible,	growth arrest and DNA-damage- inducible 45 alpha, growth arrest an DNA-damage-inducible 45 beta, growth arrest and DNA-damage-
1822	352	NM_024127	h,General	alpha	inducible, alpha
1823	17227	NM 024131	x	D-dopachrome tautomerase	D-dopachrome tautomerase, expressed sequence C78655
1824	1598	NM 024134		DNA-damage Inducible transcript 3, DNA-damage- inducible transcript 3	DNA-damage inducible transcript 3, EST, Moderately similar to GA15, HUMAN GROWTH ARREST AND DNA-DAMAGE-INDUCIBLE PROTEIN GADD 153 [H.sapiens], myozenin
1825	1162	NM_024153	ld	The second secon	ferredoxin reductase
1826	7863	NM_024156	c		ATPase, H+ transporting, Iysocoma (vacuolar proton pump) 16KD, ATPa H+ transporting, Iysocomal (vacuolar proton pump) 21kD, ESTS, Weakly similar to VACUOLAR ATP SYNTHASE 16k DPROTECULIPID SUBUNIT [R. norvegicus], Mus musculus, Similar to ATPase, H+ transporting, Iysocomal (vacuolar proton pump) 21kD, clone MGC,656 IMAGE,2812497, mRNA, complete 125T, Weakly similar to ATPase, H- transporting, Iysocomal (vacuolar proton pump) 21kD, clone MGC,656 IMAGE,2812497, mRNA, complete 125T, Weakly similar to AZP 31kB 10 ATPA 125T, Weakly similar to AZP 31kB 10 ATPA 125T, Weakly similar to AZP 31kB 10 ATPA 125T, Weakly similar to AZP 31kB 10 ATPA 125T, Weakly similar to AZP 31kB 10 ATPA 125T, Weakly similar to AZP 31kB 10 ATPA 125T, Weakly similar to AZP 31kB 10 ATPA 125T, Weakly similar to AZP 31kB 10 ATPA 125T, Weakly similar to AZP 31kB 10 ATPA 125T, Weakly similar to AZP 31kB 10 ATPA 125T, Weakly similar 10 AZP 31 ATPA 125T, Weakly similar 10 AZP 31 ATPA 125T, Weakly similar
1827	22079	NM_024157	×		icol, vesky similar to A29134. Complement factor [H. sapiens], I factor (complement, RIKEN cDNA 130008A22 gene, complement component factor i, protesse, serine (enterokinase), suppression of tumorigenicity 14 (colon carcinoma), transmembrane protease, serine 2
1828	16476	NM_024162	General	fatty acid binding protein 3, muscle and heart, fatty acid binding protein 3, muscle and heart (mammary-derived growth inhibitor)	EST, Moderately similar to FABH MOUSE FATTY ACID-BINDING PROTEIN, HEART (M musculus), ESTS, Highly similar to PC4011 falty acid-binding protein - mouse (M.musculus), fatty acid binding prot a, muscle and heart, fatty acid binding protein 3, muscle and heart (mamma derived growth inhibitor), fatty acid binding protein 3, pseudogene 2 EST, Moderately similar to A27077 drak-type molecular chapperone [H.asplers], EST, Weakly similar to
829	17765	NM 024351	b,s,v	heat shock 70kD protein 8	A27077 dnaK-type molecular chaperone [H.sapiens], EST, Weakh similar to A45935 dnaK-type molecul chaperone hsc70 - mouse [M.musculus], heet shock 70kD prots 8, hypothetical protein MGC4859

Son In	100000	Gent Bends (Acc.)	DEPENDANCE.	Homologous Goros	
No.	Monthler		Modal Goda		Namalagous Cluster Name
1830	8879	NM 024360	h		DHLH Factor Hes4, basic helix-loop- helix domain containing, class 6, 2, basic helix-loop-helix domain containing, class 6, 3, haliy (Drosophila)-homolog, haliy and enhancer of spil 6, (Drosophila), hai and enhancer of spil 6, (Drosophila) hairyenhancer-of-spil related with YRPIW motif 1, hairyenhancer-of-spi related with YRPIW motif 2, listy ortholog of mouse Hes6 neuronal differentiation gene
1831	20772	NM. 024363	x	HMT1 (hrRNP methyltransferase, S. methyltransferase, 2. Peterogonnous nuclear honucleoproteins methyltransferase-like 2 (S. cerevislae)	ANNT J HUMAN PROTEIN ARGININ N-METHYLTRANSFERASE I [H.sapiena], EST, Weakly similar to ANNT J HUMAN PROTEIN ARGININ N-METHYLTRANSFERASE I SIMILAR STANDARD S
832	2812	NM 024386	c		3-hydroxy-3-methylglutaryl-Coenzymi A Iyase, 3-hydroxymethyl-3- methylglutaryl-Coenzyme A Iyase (hydroxymethylglutaricaciduria), Hom sapiens clone 24955 mRNA sequenc partial cds, hypothetical protein
					RIKEN cDNA 2700048O17 gene,
833	335	NM_024387	j.y		heme oxygenase (decycling) 2
834	21	NM 024388	cc		nuclear receptor subfamily 4, group A member 1

WABUE	3. HUMAN	(FOMOLOGUEA)	NOTATIONS		Any, Docket No. 44921-60391 Doc. No. 179386
Scq.dD Xlo.	ldertifler	Gon Bank Age./ Ref. Gog (10 No.	Modal Gode	Homologous Gano Namo	Homologous Oluster Namo
					Homo sapiens cONA FLJ 13261 fs, clone OVAR-DIOSES, weakly simile to XXIDOREDUCTASE UCPA (EC.). Human DNA sequence from deviation of the Control of the Contr
836	9929	NM_024392	r		retinal short-chain dehydrogenase/reductase 1
1837	3582	NM_024396	333		ATP-Inding cassets, sub-family A (ABC1), member 2, ATP-Inding cassets, sub-family A (ABC1), member 3, ATP-Inding cassets, sub-family A (ABC1), member 4, ATP-Inding cassets, sub-family A (ABC1), member 4, ATP-Inding cassets, sub-family A (ABC1), member 7, ATP-Inding cassets, sub-family A (ABC1), Member 3, ATP-Inding cassets, sub-family A (ABC1), ATP-Inding Cassetts, sub-family ABC1, MCIDE ATT SINCING CASSETTE TRANSPORTER 2IM musukulay, Indone sapiens mRNA for KIAA1588 protein, partial cast, hypothesical protein FL114287, hypothesical protein PRCOS43
					DNA segment, Chr 9, ERATO Doi 85 expressed, Homo sapiens acontiame precursor (ACON) mRNA, nuclear gene encoding mitochondrial protein, parial cds, RIKEN DNA 503/140962 gene, aconitase 1, aconitase 1, soluble, aconitase 2, mitochondrial, iron-responsive element-binding
838	19993	NM_024398	e,p.s.aa		protein Homo sapiens, RIKEN cDNA 0610006H10 gene, clone MGC:1726: IMAGE:4155233, mRNA, complete cds, Homo sapiens, Similar to RIKEN cDNA 0610006H10 gene, clone MGC:9740 IMAGE:3853707, mRNA, complete cds, asparloscylase

WBLES	REMINER &	HOMOLOGUEA	SKIDIKALOKIK	of craft chief the	Atty, Doctot No. 44921-00890 Doc. No. 179895
ion ID	(Contilier	GenBenjk Acc./ Roff, Gent (D No.		Homologous Cana Name	Homothopous Cluster Name
					ESTs, Weakly similar to T47158 hypothetical protein DKFZp762C1110.1 [H.sapiens], Mus musculus papilin mRNA, complete c Mus musculus, Similar to a disintegr and metalloprotelnase with
					thrombospondin motifs 1 (ADAMTS- clone IMAGE:3491991, mRNA, parti cds, RIKEN cDNA 6720426B09 gen RIKEN cDNA A930008K15 gene, a
					disinlegrin-like and metalloprotease (reprolysin type) with thrombospond type 1 motif, 1, a disintegrin-like and metalloprotease (reprolysin type) with
					thrombospondin type 1 motif, 4, a disintegrin-like and metalloprotease (reprotysin type) with thrombospond type 1 motif, 8, a disintegrin-like and metalloprotease (reprolysin type) with
840	22626	NM_024400	cc,General		Ithrombospondin type 1 motif, 9 EST, Weekly similar to ATF4_HUMA CYCLIC-AMP-DEPENDENT
					TRANSCRIPTION FACTOR ATF-4 [H.sapiens], ectiveting transcription factor 4 (tax-responsive enhancer element B67), activating transcriptio
841	13633	NM_024403	g,General		factor 5 EST, Weakly similar to ATF4_HUMA CYCLIC-AMP-DEPENDENT
					TRANSCRIPTION FACTOR ATF-4 [H.sapiens], activating transcription factor 4 (tax-responsive enhancer element B67), activating transcription
841	13634	NM_024403	g,General		Factor 5 ESTs, Moderately similar to HETEROGENEOUS NUCLEAR
					RIBONUCLEOPROTEIN C [R.norvegicus], ESTs, Weakly simila to A44192 heterogeneous nucleer ribonucleoprotein C-like protein [H.sapiens], Mus musculus high- glycine/tyrosine protein type I ES
					mRNA, complete cds, expressed sequence C85084, heterogeneous nuclear ribonucleoprotein A/B, heterogeneous nuclear ribonucleoprotein D, heterogeneous
842 23387	23387	NM_024404	b,General		nuclear ribonucleoprotein D (AU-rich element RNA-binding protein 1, 37k
				EST, Weakly similar to SYHUAL 5- aminotevulinate synthase [H.sapiens ESTs, Moderately similer to 5- AMINOLEVULINIC ACID SYNTHAS MITOCHONDRIAL PRECURSOR,	
					NONSPECIFIC [R.norvegicus]. aminolevulinate, delta-, synthase 1, aminolevulinic acid synthase 1, aminolevulinic acid synthase 2, erythroid, serine palmitoyltransferasi
843	21038	NM 024484		aminolevulinate, delta-, synthase 1, aminolevulinic acid synthase 1	long chain base subunit 1, serine palmitoyltransferase, long chain bas subunit 2

TABUL	a HUMA	N/HOMOLOGUEZA	UNO AMIONS		Ally, Dockel No. 44921-503977 Doc No. 1779397
Seq. (Le No.	locatine	GenBank /Aeg/ Roll-Sing ID No	Madal Gada	Homologous Gana Yerra	Hamologous Cluster Nemo
1844	1853	NM 030826		glutathione peroxidase 1	GSHG_MOUSE GLUTATHIONE PEROXIDASE-GASTROINTESTINAL (GSHPX-G) [M.musculus]. ESTs, Weakly similar to GSHC RAT GLUTATHIONE PEROXIDASE [R.norvegicus], glutathione peroxidase 1, glutathione peroxidase 2 (gastrointestinal)
1845	15111	NM 030827	e-General	low density lipoprotein receptor-related protein 2, low density isoportein- related protein 2	ISST Highly similar to LEPP RAT LOW DORSITY LEPPOPTEIN RESEPTOR POLICIANS OF THE ACCURSOR RELATED PROTEIN 2 PRECURSOR RELATED PROTEIN 2
1845	15112	NM 030827	y,z	tow density lipoprotein receptor-related protein 2, tow density lipoprotein- related protein 2	receptor-related protein 1, low density lipoprotein receptor-related protein 2, low density lipoprotein-related protein 18 (deleted in tumors), low density lipoprotein-related protein 2

TABLE 8	K HUMAN	HOMOROGUE A	INOWALIONS .	property (	Any, Destat No. 43921-503300 Dec. No. 1793337
Seg. (D No.	Medillor	GenDents/Ace/ Roll Scq. ID No.		Homologous Gana Name	Hamologous Gluster Namo
1845	15110	NM_030827	General	low density lipogratain recaptor-related protein 2, low density lipogratein- related protein	EST. Highly similar to LEP2 RAT LOV DORNITY LIPOPOTEIN RECEPTOR RELATED PROTEIN 2 PRECURSOR RELATED PROTEIN 2 PRECURSOR RELATED PROTEIN 2 PRECURSOR RELATED PROTEIN 2 PRECURSOR RELATED PROTEIN 2 PRECURSOR RELATED PROTEIN 2 PRECURSOR PROTEIN 2 PRECURSOR PROTEIN 2 PRECURSOR PROTEIN 2 PROTEIN 2 PRECURSOR PROTEIN 2 PROTEIN 2 PRECURSOR PROTEIN 2 PROT
1043	13710	030027	General	retated protein 2	solute carrier family 21 (organic anion transporter), member 1, solute carrier family 21 (organic anion transporter), member 10, solute carrier family 21 (organic anion transporter), member 14, solute carrier family 21 (organic anion transporter), member 3, solute carrier family 21 (organic anion transporter), member 3, solute
1846 .	808	NM 030837	k,m		carrier family 21 (organic anion transporter), member 6
1847	4057	NM 030844	k		ESTs, Weakly similar to 165309 autoantigen p69 - rat [R.novegicus], Homo sapiens ALS2CR15 mRNA, partial cds, RIKEN cDNA 1700030B17 gene, islet cell autoantigen 1 (69kD), Jislet cell autoantigen 1, 69 kDa
1848	1221	NM_030845	t		GRO1 oncogene, GRO2 oncogene, Rattus none-gicus CXC chemokine RTCK1 (Rick1) mRNA, complete cds, interieukin 8, platelet factor 4, pro- platelet basic protein, pro-platelet basic protein (includes platelet basic protein, beta-thromboglobulin, connective tissue-activating peptide meutophila-dictivating peptide III neutrophila-dictivating peptide
1849	21509	NM 030847	x		ESTs, Weakly similar to PERIPHERAL MYELIN PROTEIN 22 [R.norvegicus], Peripheral myelin protein, epithelial membrane protein 3, peripheral myelin protein 22, peripheral myelin protein, 22 kDa
1850	1928	NM 030872		pyruvate dehydrogenase 2, pyruvate dehydrogenase kinase, isoenzyme 2	EST, Highly similar to PDK2 RAT [R.norvegicus], expressed sequence Al035537, pyruvate dehydrogenase 2, pyruvate dehydrogenase kinase, isoenzyme 2
1851	17342	NM 030873	v	ramew, isotricyring 2	Isouricythe Z EST, Weakly similar to A Chain A, Human Platelet Profilin Complexed With The L-Pro10 Peptide (SUB 3-140 (H.sapiens), ESTs, Weakly similar to profilin [R.norvegicus], RIKEN cDNA 1700012P12 gene, profilin, profilin 1, profilin 2

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G protein-coupled receptor 15, G-protein coupled receptor 15	Soq. (D No.	leter Officer	GenBank Acad Raf Sag ID No.	Model, Gode		BUT BUT STORY
ESTs, Weakly similar to G881 RA, GUAINNE NUCLEOTIDE-BNDINN	1852	24648	NM_030985	u		protein coupled receptor SALPR; somatostatin and angiotensin-like peptide receptor, engiotensin receptor
GUANINE WÜCLEOTICE-BINDING	1852	25453	NM_030985	General		
RIKEN CDNA 2310005E10 gene, a letter than 18 lett	1853	21802	NM_030987	b		GLANINE NÜCLEOTIDE-BINDING PROTEIN CING (SIGN) GER STATE
4-aminocity/rate arminotransfersor   RIKEN CDNA 1300019H02 gene,   RIKEN CDNA 1300019H02 gene,   RIKEN CDNA 1300019H02 gene,   RIKEN CDNA 1300019H02 gene,   RIKEN CDNA 2900008H13 gene,   demonstrate   RIKEN CDNA 2900008H13 gene,   demonstrate   RIKEN CDNA 2900008H13 gene,   demonstrate   RIKEN CDNA 290008H13 gene,   demonstrate   RIKEN CDNA 290009H13   demonstrate   RIKEN CDNA 29009H13   1854	23109	NM 031000	fs.z		RIKEN cDNA 2310005E10 gene, ald keto reductase family 1, member A1 (aldehyde reductase), eldo-keto reductase family 1, member A4 (aldehyde reductase), aldo-keto	
1858   25461	1855	134	NM 031003	a.u		RIKEN cDNA 1300019H02 gene, RIKEN cDNA 2900006B13 gene,
ARACHIDONATE 12-						
ARACHIDONATE 12	1857	1845		t		LIPOXYGENASE [R.norvegicus], erachidonate 12-lipoxygenase, arachidonate 12-lipoxygenase pseudogene 2, erachidonate 15- lipoxygenase, expressed sequence
MITOGENACTIVATED PROTEIN KINASE 14 (R.novegicus), mitoge activated protein kinase 11, mitoge activated protein kinase 11, mitoge activated protein kinase 11, mitoge activated protein kinase 11, mitoge activated protein kinase 11, mitoge		25517		cc,t		LIPOXYGENASE [R.norvegicus], arachidonate 12-lipoxygenase, arachidonate 12-lipoxygenese pseudogene 2, arachidonate 15- lipoxygenase, expressed sequence AW259591
						ESTs, Weakly similar to MK14 RAT MITOGEN-ACTIVATED PROTEIN KINASE 14 [R.norvegicus], mitogen activated protein kinase 14, mitogen- activated protein kinase 11, mitogen- activated protein kinase 14
1859 1480 NM 031021 If casein kinase II, beta subunit						casein kinase 2, beta polypeptide,

KARI16	e: inulman	WEINBOTOGNEW	NNUMATIONS	Action, Sec. 35	Ally, Dooket No. 43921-5093 Dos. No. 3144
on (D)	ide tille	GonBank (1911) Russa, No. 20	Model Gods	Momologians Gama Name	Jamologous Guster Yerre
					ESTs, Moderately similar to T30989 serine/threonine protein kinase NIK mouse [M.musculus], RIKEN cDNA
					1500031A17 gene, drebrin 1, drebri like, hypothetical protein FLJ13154, mitogen-activated protein kinase
					kinase kinase kinase 4, mitogen- activated protein kinase kinese kina kinase 6, src homology 3 domain-
860	1719	NM_031024	n	drebrin 1	containing protein HIP-55
					DnaJ (Hsp40) homolog, subfamily B member 6, EST, Moderately similar NEK1 MOUSE SERINE/THREONIN PROTEIN KINASE NEK1
					[M.musculus], EST, Moderately similar to T31096 cyclin G-associated kinas GAK - rat [R.norvegicus], EST, Wea
					similar to T31096 cyclin G-associate kinase GAK - rat [R.norvegicus], ES
					Moderately similar to NEK1 MOUSE SERINE/THREONINE-PROTEIN KINASE NEK1 [M.musculus],
					KIAA1048 protein, Mus musculus, Similar to cyclin G essociated kinas- clone IMAGE:3487931, mRNA, part
					cds, NIMA (never in mitosis gene e) related expressed kinase 1, RIKEN cDNA 4632401F23 gene, cyclin G
1861	1350	NM 031030	in		associated kinase, hypothetical prot DKFZp434P0116, serine/threonine kinase 16
	1000	THE COTOS			ESTS, Highly similar to GLYCINE AMIDINOTRANSFERASE PRECURSOR [R.norvegicus], RIKE
			General		cDNA 1810003P21 gene, glycine amidinotransferase (L-erginine:glyci amidinotransferase)
862	16775	NM_031031	General		ESTs, Highly similar to GB12 RAT GUANINE NUCLEOTIDE-BINDING PROTEIN, ALPHA-12 SUBUNIT
					[R.norvegicus], guenine nucleotide binding protein (G protein) alpha 12,
					guanine nucleotide binding protein ( protein), alpha 13, guanine nucleotic binding protein, elpha 12, guanine
863	691	NM_031034	lw.		nucleotide binding protein, alpha 13 guanine nucleotide binding protein (
					protein), alpha inhibiting activity polypeptide 2, guanine nucleotide binding protein, elphe inhibiting 2,
864	15886	NM_031035	z		guenine nucleotide binding protein, alpha inhibiting 3
					Homo sapiens, Similar to histamine methyltransferase, clone MGC:1450 IMAGE:4249496, mRNA, complete
866	3608	NM_031044	k,General		cds, expressed sequence Al788969 histernine N-methyltransferase
					Homo sapiens, Similar to histamine methyltransferase, clone MGC:1450 IMAGE:4249496, mRNA, complete
866	3610	NM_031044	d,General		cds, expressed sequence Al788969 histamine N-methyltransferase

TABLE	HUMAN	HOLOROGNEVA	CHOMATONS	MARKET IN THE SAME	- 1 Any, 10 reken (No. 44192) = 10 res. No. 17
300, ID No.	relation etc.	GerBents Accal Roll Seg. ID No.	Medal@odo+	Hamologous Caro Namo	
1867	15137	NM 031051			EST, Highly similar to C Chain Macrophage Migration Inhibito Fector [H.sapiens]. EST, Mode similar to C Chain C, Macroph Migration Inhibitory Factor [Hs EST, Moderaldy similar to Mig MACROPHAGE MIGRATION INHIBITORY FACTOR [R.norv macrophage migration inhibito macrophage migration inhibito (glycosylation-inhibiting factor).
	1				matrix metalloproteinase 14 (membrane-inserted), matrix
1868	514	NM_031056	General		metalloproteinase 19, vitronect
1869	17269	NM 031057	General		RIKEN cDNA 1110038i05 gene aldehyde dehydrogenase famil subfamily A4, expressed seque Al427784, hypothetical protein FLJ23189, methylmalonate- semialdehyde dehydrogenase
1870	11849	NM_031065	a		MOUSE 60S RIBOSOMAL PRI L10A (M.musculus), EST, Weal similar to 60S RIBOSOMAL PRI L10A (R.norvegicus), ESTs, Hig similar to R10A HUMAN 60S RIBOSOMAL PROTEIN L10A [H.sapiens], ribosomel protein t ribosomal protein L10a [EST, Highly similar to NUS8 RX
1871	1855	NM_031074	h	nucleoporin 98, nucleoporin 98kD	NUCLEAR PORE COMPLEX PORTE OMPLEX PROTEIN NUPSE (R. norvegicu STs., Weakly similar to NUS8 NUCLEAR PORE COMPLEX PROTEIN NUPSE (R. norvegicu RIKEN CDNA 05 10038121 gen RIKEN CDNA 4930432X15 gen RIKEN CDNA 5430432X15 gen melanoma antigen, family D. 3, nucleoporin 98kD, plasma mem associated protein, 83-12, troph
					phosphatidylinositol 3-kinase, c alpha polypeptide, phosphatidy 4-kinase, catalytic, beta polype phosphoinositide-3-kinase, cata
1872	4683		d		gamma polypeptide EST, Weakly similar to RALA N RAS-RELATED PROTEIN RAL [M.musculus], Homo sapiens of FLJ23197 fis, clone REC00917 RIKEN cDNA 1110065D03 gen similan leukemia viral oncogene homolog A (ras related), v-ral si leukemia viral oncogene homol
1873	15202	NM_031093			(ras related) EST, Weakly similar to RALA M RAS-RELATED PROTEIN RAL [M.musculus], Homo saplens of FLJ23197 fis, cione REC00917. RIKEN cDNA 1110065003 gen simian leukemia viral oncogene homotog A (ras related), v-ral si leukemia viral oncogene homok

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Sog, 10 Xo,	ldertiller	GenBank Accul Roft Son, ID Co	Model Gode	Hermologous Gone Name	Homologous Cluster Name					
1874	12639	NM_031099	388		ESTs, Weakly similar to S55912 ribosomal protein L5, cytosolic [H.sapiens], ribosomal protein L5					
1074	1203				EST, Moderately similar to 60S RIBOSOMAL PROTIEN L10 (M. musculus), EST, Moderately similar to 60S RIBOSOMAL PROTEIN L10 (Fl. novegicus), ESTs, Highly similar to 442735 rhosomal protein L10, cytostic (H. sapiene), Homo sapiens, Similar to rhosomal protein L10, on MGC-22354 IMAGE-335452, mRVA Complete dost, human DVA sequenci from clore RPS-33944 or Complete dost, human DVA sequenti- from clore RPS-33944 or Art GSSs Control a LAMRI (sand GSSs Control a LAMRI (sand protein SA) posequence and RPS-10 (rhosomal protein SA) posequence and RPS-10 (rhosomal protein SA)					
1875	20812	NM 031100			protein L10) pseudogene, Mouse 24.6 kda protein mRNA, complete cds, ribosomal protein L10					
1876	16938	NM_031103	w		ESTs, Weakly similar to 60S RIBOSOMAL PROTEIN L19 (R.norvegicus), Homo sapiens mRNA cDNA DKFZp434D115 (from clone DKFZp434D115), ribosomal protein L19					
1877	19268	NM 031104			ESTS, Highly sinitar to JC2120 hepatri-hiding protein 15 H sapient SETS, Mcderately similar to RL22 RA SOS RIGOSOMAL PROTEIN LZ PAR SOS RIGOSOMAL PROTEIN LZ PAR SOS RIGOSOMAL PROTEIN LZ PAR SOS RIGOSOMAL HUMOSOMAL PROTEIN LZ PAR SOS RIGOSOMAL HUMOSOMAL PROTEIN LZ PAR SOS RIGOSOMAL					EST, Weakly similar to RS9 RAT 40S RIBOSOMAL PROTEIN S9 [R.norvegicus], EST, Weakly similar to S55917 ribosomal protein S9, cytosol (H.sapiens), Homo sapiens, clone IMAGE-4500773, mRNA, partial cds, RIKEN CDNA 3010039P07 gene, expressed sequence AL022771, expressed sequence AL022875, imitochondrial ribosomel protein S4.
1878	,16929	NM_031108			Inbosomal protain 59 LEST, Weakly similar to 40S RIBOSOMAL PROTEIN S11 (Rnoregicias), Homo sapiens mRNA; cDNA DKFZp434A0326 (from clone DKFZp434A0326), Human DNA sequence from clone RP5-10600K on chromosome 20p12.1-13. Contains an RPS11 (40S hosomal protein S1) pseudogene, ESTe, STSs and GSSs, RAD21 homolog (S, pombe),					

TABLE	CHUIMAN	HOMOROGAEV	ENDITATIONS	的意识 地名美国	Ally, Rocket No. 44221-5000 Ros, No. 17939
330, ID. No.		Confernis/Accs/ Ref. Sec., No Mo.		Yemelogous Gene Name	Homologous Gluster Namo
	40400	NN 02444			EST, Moderately, similar to 40S RIBOSOMAL, PROTEIN S21 [R.norvegicus], Human DNA seque from clone RP5-1116H23 on chromosome 20 Contains a novel gane, a 40S ribosomel protein S21 pseudogene, C ÇOİ silands, ESTs, STSs and GSSs, RIKEN cDNA 1410049N1 gene, RIKEN cDNA 2410030A14 gene, ribosomal protein
1880	19162	NM_031111	88		IS21 EST, Moderately similar to 40S RIBOSOMAL PROTEIN S21 RROSOMAL PROTEIN S21 RR norvegicus], Human DNA seque from clone RP5-1116H23 on chromosome 20 Contains a novel gene, a 40S ribosomal protein S21 pseudogene, 2 CpG islands, ESTS, STSs and GSSs, RIKEN CDNA 1810049N11 gene, RIKEN CDNA 1810049N11 gene, RIKEN CDNA
1880	19161	NM_031111	a,bb		S21   EST, Highly similar to 40S   RIBOSOMAL PROTEIN S24   RIROSOMAL PROTEIN S24   Rnonegicus], EST, Weakly similar   Cytocolic   H. sapiena], EST, Weakly   Similar to RS24 HUMAN 40S   RIBOSOMAL PROTEIN S24   IM. musculus], ESTs, Highly similar   H0213 ribosomal protein S24,   cytosolic   H. sapiena], ESTs, Weakly   STS, Weakly S24, PUNDAN 40S
1881	24615	NM_031112	a,y		RIBOSOMAL PROTEIN S24 H. sapiena, Flosomal protein S24 EST, Noderately similar to S12583 loyubiguint - mouse (M. musicus) EST, Noderately similar to b1000 EST, Noderately similar to b1000 EST, Waskly similar to R27A, H.DM EST, Waskly similar to R27A, H.DM EST, Waskly similar to R27A, H.DM EST, Waskly similar to R27A, H.DM EST, Waskly similar to R27A, H.DM EST, S1000 EST, Waskly similar to R27A, H.DM EST, S1000 EST,
1882	20839	NM_031113	a.q	S100 calcium binding protein A10 (calgizzarin), S100 calcium-binding protein A10 (annexin II figand, calpactin I, light	S27a, ublquitin C EST, Moderately similar to A Chain P11 [H.saplens], EST, Moderately similar to CALPACTIN I LIGHT CHA [R.norvegicus], S100 caldum-bindin protein A10 (annexin II ligand, calpactin I, light polypepitde (p11)), calcium binding protein A10
1883	19040	NM_031114	I,m,General	polypeptide (p11))	(Galgizzarin) ESTs, Highly similar to 2111411A secretin receptor (H.sapiens), ESTs Weakly similar to vasoctive intestir polypeptide 1 [M.musculus], adenyla cyclase activating polypeptide 1 receptor 1, secretin receptor,

		A STATE OF	A	122	Dog, No. 179339
309. ID 10.				Nomologous @erre Name	
1885	14970	NM_031127	General		ESTs, Highly similar to SUOX RAT SULFITE OXIDASE PRECURSOR (R.norvegicus), RIKEN cDNA 0610009N12 gene, RIKEN cDNA 1810044O22 gene, RIKEN cDNA 2810034J18 gene, fatty acid desaturase 2, sulfite oxidase
				thyroid hormone receptor alpha, thyroid hormone receptor, alpha (avian erythroblastic leukemia viral (v-erb-a) oncogene	EST, Weekly similar to A30893 thyro hormone receptor alpha, spice form [H.sapiens], expressed sequence AW259572, expressed sequence R75201, thyroid hormone receptor, alpha (avian erythroblastic leukemia
886	1814	NM_031134	n,q	homolog)	viral (v-erb-a) oncogene homolog)
				,	Kruppel-like factor 15 (kidney), Krupt like factor 9, RIKEN cDNA 49304801 gene, TGFB inducible early growth response, basic transcription elemen binding protein 1, trans-acting transcription factor 3, trens-acting
1887 4	13359	NM_031135	General		transcription factor 6
1888	15052	NM 031136	a		ESTs, Highly similar to A3682 hymosin beta HL sapiens), ESTs, Highly similar to TYB4 MOUSE THYMOSIN BETA-4 M. musculus), ESTs, Highly similar to TYB4 HUMA THYMOSIN BETA-4 H. sepiens), Human interferon-inducible mRNA (cDNA 6-26), expressed sequence AW54426; Hymosin, beta 10, thymosin, beta 10, thymosin, beta 4, X chromosome, Lymymosin, beta 4, X chromosome
1888	19359	NM_031136	0		
1889	15185	NM_031140	General		*EST, Moderately similar to A25074 vimentin [H.sopiens], EST, Weakly similar to A25074 vimentin [H.sopien ESTs, Moderately similar to VIME R/ VIMENTIN [R.norvegicus], ESTs, Weakly similar to A25074 vimentin [H.sopiens], ESTs, Weakly similar to VIME RAT VIMENTIN [R.norvegicus] vimentin
				,	EST, Weakly similar to ACTB_HUMA ACTIN, CYTOPLASMIC 1 IR. norvegicus], ESTs, Highly similar. ATHUB acid heat [A. sapiens], ESTS Weakly similer to ACTB_HUMAN ACTIN, CYTOPLASMIC 1 IR. norvegicus], Homo sapiens FKSG30 (FKSG30) mRNA, complete cds, RIKEN CDNA 170005X15 gene, acid beta, acid—like 7a, acid-related protes
1890	21625	NM_031144	9,0		3-beta, melanoma X-actin CATX-8 protein, ESTs, Weakly simila
					CATA-6 protein, E-15, Weaky stillie to R-11A, HUMAN RAS-RELATED PROTEIN RAB-11A [R. norvegicus], RAB, member of RAS oncogene familike 2A, RAB11A, member RAS oncogene family, RAB11a, member RAS oncogene family, RAB15, member RAS oncogene family, RIKE

VABLE	er Human	HOMOLOGUEA	EMOLTATIONS:		Alilys Dorkret No. 49924-6037W Doc. No. 1793997
	)     (dentifier	GonBank Ace) Ref. Seq. ID Mo.	Modal@cde	Mamalagare Gare Nama	Mamologous Gluster Mamo
1891	240	NM_031152	bb		CATX-8 protein, ESTs, Weakly simila to R11A HUMAN RAS-RELATED PROTEIN RAB-11A [R.norvegicus], RAB, member of RAS oncogene famil like 2A, RAS11A, member RAS oncogene family, RAB11a, member RAS oncogene family, RAB2S, member RAS oncogene family, RIKEI (CDNA 2700023798 gene
					EST, Moderately similar to UBSS, HUMAN UBIOUTING ENCYME E2-17 NO CONJUGATING ENCYME E2-18 NO CONJUGATING ENCYME E2-18 NO CONJUGATING ENCYME E2-18 NO CONJUGATING ENCYME E2-17 NO CONJUGATING ENCYME E2-17 NO CONJUGATING ENCYME E2-17 NO CONJUGATING ENCYME E2-17 NO CONJUGATING ENCYME E2-18 NEW E2-18
1892	15277	NM_031237	19		(homologous to yeast UBC4/5) ESTs, Weakly similar to Y228, HUMAN HYPOTHETICAL PROTEIN ZAP128 [H.saplens], Mus musculus, Similar to cybsolic acyl- CoA thioesterase 1, clone MGC:2757. IMAGE:4485973, mRNA, complete cd

PABLE	3 HUMAN	HOMOROGAE	ANNOTATIONS	all and recognized	Atty Docket No. 44921-6089V
80q. (D		Genternik Accul Roff, Soq. ID No	Lazzo	Chandegous Gore	Dos. No. 1797997 Homologous Gustef Name
1893	1858	NM, 031315	q	cytosofic aspt-CuA thosolicasus - 1, peroxisomal long-chain acyt-cuA thoselerase	PTEZ HUMAN PEROXISOMAL ACY COCRAYME A THIOESTER HYDROLASE 2 (PEROXISOMAL LONG-CHAIN ACY CASA 2) (ALPH
1894	15663	NM_031318	General		t-complex testis expressed 1, t- complex-associated-testis-expressed like 1
1895	1422	NM_031324	bb,General		ESTs, Moderately similer to I38134 prolyl oligopeptidase [H.sapiens], prolyl endopeptidase
1896	18597	NM 031325	g,bb	+	IUDP-glucose dehydrogenase
1897	11259	NM_031327	i,cc,General		ESTs, Moderately similar to CYR6 MOUSE CYR61 PROTEIN PRECURSOR (M.musculus), cysteine rich protein 61, cysteine-rich, angiogenic inducer, 61
1898	4235	NM_031330	General	heterogeneous nuclear rithonucleoprotein A/B	ESTs., Highly similar to WZYLIVIS arginification can be saye II Hapiperi, ESTs., Waskly similar to 1601-22A. ESTs., Waskly similar to 1601-22A. ESTs., Waskly similar to 1601-22A. ESTs., Waskly similar to 1601-22A. ESTs., Waskly similar to 1601-22A. ESTs., Come PLACES000322, Mussah's Inomic (Drosophile), ERICKO LONA 2550006M18 gene. ERICKO LONA 2550006M18 gene. ERICKO LONA 2550006M18 gene. ERICKO LONA 2550006M18 page. ESTS. Waskly similar to PSDs. I JUNAN 25S PROTEASOME REGULATORY SUBLIMIT SSM, Paspienal, ESTs., M. SSS PROTEASOME REGULATORY SUBLIMIT SSM, Paspienal, ESTs., M. SSS PROTEASOME REGULATORY SUBLIMIT SSM, Plaspienal, ESTS., H. SSS PROTEASOME REGULATORY SUBLIMIT SSM, Plaspienal, ESTS., H. SSS PROTEASOME REGULATORY SUBLIMIT SSM, Plaspienal,

				-331-	
TABLE	8 1 · (L) · (c)	HOMOROGAEW	NOTATIONS	orginal gradens	. Ally Doctor No. 44921 - Doc No. 17
969, ID No.	Confiler	ComBernity Arge.// [Refl: Steep 410 No.	Model Gode	Kamologous Cono Anno	Homologous Gluster Warn
1900	3519	NM_031334	cc	cadherin 1, cadherin 1, lype 1, E-cadherin (epitheliat)	ESTs, Weakly similar to 14955 cadherin-11 - mouse [M.musci RIKEN cDNA 2610005L07 ger cadherin 1, type 1, E-cadherin (epithelial), cadherin 6, cadher type 2, K-cadherin (fetal kidne;
1901	20698	NM_031357	b		
1903 1903	634	NM_031509 NM_031509	n .		EST, Moderately similar to GT MOUSE GLUTATHIONE S- TRANSFERASE YC [M.muscu glutathione S-transferase A3, glutathione S-transferase, alph
1903	25069	NM_031509	b,n,w	1	<del> </del>
1903	635	NM 031509	z		EST, Moderately similar to GTI MOUSE GLUTATHIONE S- TRANSFERASE YC [M.muscu glutathione S-transferase A3, glutathione S-transferase, alph
1904	848	NM_031517 1	t	met prote-oncogene, met prote-oncogene (hepatiocyte growth factor receptor)	MACROPHAGE-STMULATIN PROTEIN RECEPTOR PRECI. (I. Lapiena), ESTs. Highly simil TYHLME hepstocyte growth for receptor precursor (H. Lapiena), musculus DBS mRNA. compel. Rattus nonvegicus ryk mRNA (r lyrosine kinase-related protein, cets, macrophage stimulating 1 receptor (c-met-related tyrosine kinase), met proto-oncogene, n proto-oncogene (hepstocyte gr factor receptor).
1905	1872	NM_031523	a		RIKEN cDNA 0610007D04 gen kallikrein 1, renal/pancreas/salli kallikrein 5, kallikrein 9, nerve g factor, alpha, nerve growth fact gamma
1905	16245	NM 031523	a,d,u		EST, Moderately similar to epid growth factor binding protein ty [M.musculus], EST, Weakly sin pre-pro-protein for kallikrein [H.sapiens]
1905	16244		a.u,u		EST, Moderately similar to epid EST, Moderately similar to epid growth factor binding protein ty [M.musculus], EST, Weakly sim pre-pro-protein for kallikrein [H.sapiens]
				protein phosphatase 1, catalytic subunit, alpha	EST, Weakly similar to JN0723 phosphoprotein phosphatase [H.sapiens], protein phosphatas
1906	9370	NM_031527	w	isoform	catalytic subunit, alpha isoform EST, Weakly similar to SY02 R
		NM 031530		small inducible cytokine A2, small inducible cytokine A2 (monocyte chemotactic protein 1, homologous to mouse Sig-	SMALL INDUCIBLE CYTOKINE PRECURSOR [R.norvegicus], expressed sequence Al323594, expressed sequence AW987544 inducible cytokine A2, small inducible cytokine A7 (monocyte chemotactic prote small inducible cytokine subfam

				-332-			
TABLE	30 HUMAN	HOMOLOGUEA	NNOTATIONS		Any, Docket No. 44924-493977 Doc. No. 1793897		
Seq. ID No.	Familiar	Conflorit Accidence (Confloring Accident	Word Gods	Hemologous Garia . Vania	Homologous Cluster Name		
1907	20449	NM 031530	General	small inducible cytokine A2, small inducible cytokine A2 (monocyte chemotactic protein 1, homologous to mouse Sig- ile)	EST, Weakly similar to SY02 RAT SMALL INDUCIBLE CYTOKINE A2 PRECURSOR (R.novegicus), expressed sequence AI323594, expressed sequence AI323594, inducible cytokine A2, small inducible cytokine A24, small inducible cytokine A24, small inducible cytokine A7 (monocyto chemotactic protein 3),		
1908	14633	NM_031533	U		ESTS, Moderately similar to UDP- GLUCUPIONOSYTTAMSFERASE 285 FRECURSOR, MCROSOMAL [Minusculag, ESTS, Wealty similar UDST_HUMAN UDP- GLUCUPIONOSYTAMSFERASE 285 FRECURSOR, MCROSOMAL [Mapines, ESTS, Wealty similar to UDST_HUMAN UDP- GLUCUPIONOSYTITAMSFERASE 2817 PRECURSOR, MCROSOMAL [Haspiena, ESTS, Wealty similar to UDSH_HUMAN UDP- GLUCUPIONOSYTITAMSFERASE 2817 PRECURSOR, MCROSOMAL [Haspiena, RirCely COMP glucupionosytiamsferase 2 Tamily, MCROSOMATION COMPANIENCE AND COMPANIE		
				CD36 antigen (collagen type I receptor, thrombospondin receptor)- like 1, scavenger receptor	like 1, CD36 antigen (collagen type I receptor, thrombospondin receptor)- like 2, ESTs, Weakly similar to JC5533 scavenger receptor class B type I precursor - rat (Ronvegicus), Homo sapiens scavenger receptor class B type III SR-BIII mRNA, partial cds,		
1909	16048	NM_031541		class B1 cytochrome P450, 2e1, ethenol inducible,	scavenger receptor class B1		
1910	4011	NM 031543	c,q	cytochrome P450, subfamily IIE (ethanol- inducible)	cytochrome P450, 2e1, ethanol inducible, cytochrome P450, subfamily IIE (ethanol-inducible)		
1910	4010	NM_031543	c,q	cytochrome P450, 2e1, ethanol inducible, cytochrome P450, subfamily IIE (ethanol- inducible)	cylochrome P450, 2e1, ethanol inducible, cytochrome P450, subfamily IIE (ethanol-inducible)		
1910	4012	NM_031543	q	cytochrome P450, 2e1, ethanol inducible, cytochrome P450, subfamily IIE (ethanol- inducible)	cytochrome P450, 2e1, ethanol inducible, cytochrome P450, subfamily IIE (ethanol-inducible)		
1911	28	NM 031546	General	regucalcin, regucalcin (senescence marker protein-30)	regucalcin, regucalcin (senescence marker protein-30)		
	24640	NM 031548	h,cc	sodium channel, nonvoltage-gated 1 alpha, sodium channel, nonvoltage-gated, type I, alpha polypeptide	expressed sequence AW742291, sodium channel, nonvoltage-gated 1 alpha, sodium channel, nonvoltage- gated 1, delta, sodium channel, nonvoltage-gated, type 1, alpha potypeptide		
1912	17149	NM 031549	x	transgelin	transgelin		

TABLE 8	e Fruman	HOMOLOGUEA	SKOTATIONS	1000	Any, Doctor No. 44921403900
30g. (10)	Technical Technical	GenBank Aca/		Homologous Gana	Dos. No. 1793397
	लंहनसम्बद्ध	Ref. Seg. ID No.		Xemp	Homologous Gluster Namo
					ESTs, Moderately similar to ADDG_MOUSE GAMMA ADDUCIN (ADDUCIN-LIKE PROTEIN 70)
1914	13105	NM_031552	w	adducin 3 (gamma)	[M.musculus], adducin 3 (gamma) [ESTs, Weakly similar to CPT1 MOUSE
				camitine	CARNITINE O- PALMITOYL TRANSFERASE I, MTCCHONDRIAL LIVER ISOFORM IM. Muscukuis, ESTS, Weakly similar to 169351 camiline O- palmitopitransferase IH. sapinas, IESTS, Weakly similar to MTCCHONDRIAL CARNITINE O- PALMITOYL TRANSFERASE I, LIVER, ISOFORM IR. nonvegicusi, camiline palmitopitransferase 1, inver, camiline palmitopitransferase 1, muscle.
1915	15411	NM_031559	d,r	palmitoyitransferase I, liver	camitine palmitoyltransferase I, liver
1916	16164	NM 031563		Y box protein 1, nuclease sensitive element binding protein 1	ESTs, Highly similar to I39382 Y box- binding protein 1 - human [H.sapiens], RIKEN cDNA 1700102N10 gene
1917	9621	NM_031953	a.y	nbosomal protein S7	EST, Mcdarately similar to 40S  RROSCAMAL, PROTEINS 7  RR nonvegicus], EST, Weakly similar to 40S  RR 1805 SMALL, PROTEINS 7  RR nonvegicus], EST, Weakly similar to 40S  RROSCAMAL, PROTEINS 7  RROSCAMAL, PR
1917	9620	NM_031570	w,bb	ribosomal protein S7	cells inhibitor-like 2, ribosomal protein S7
					ESTS, Moderately similar to KPBG, HUMAN PHOSPHORYLASE B KINASE GAMMA CATALYTIC CHAIN, SKELETAL MUSICLE ISOFORM (H. sapiene), ESTS, Moderately similar to PHOSPHORYLASE B KINASE GAMMA CATALYTIC CHAIN; SKELETAL MUSCLE ISOFORM (R.novegicus), RIKEN cDNA 150001702 gene, endopleamic recitulum (ER) to rucleus signaling 2,

ALTE S	SE INCIMIAN	HOMOLOGUEAL	INDIVATALONS	Same bearing of the state of	Ally, Dockel No. 4/22/4-2020 Dock No. 179391
30g, ID Xo.	redition (dendition		Model Gode	Homologous Cone Name	In many to us diversity Margo
1919	1921	NM_031576	1	P450 (cytochrome) oxidoreductase	ESTs, Highly similar to A Chain A. Crystal Structure Of The Finn-Bridd Domain Of Human Oxfochrome P45 Reductase At 1.93a Resolution (SU 61-241 [H-asplens], MDPH- dependent FMN and FAD containing oxidoreductase, P450 (cyto
1919	1920	NM_031576	r	P450 (cytochrome) oxidoreductase	IESTs. Highly similar to A Chain A. Crystal Structure Of The Fmn-Bindin Domain Of Human Cytochrome P45 Reductase At 1.93a Resolution (SUE 61-241 [H.sapiens], NADPH dependent FMN and FAD containing oxidoreductase, P450 (cytochrome) oxidoreductase, RIKEN cDNA 4930447P04 gene, hypothetical protein FLJ 10900
1920	24219	NM_031579	i,General	protein tyrosine phosphatase 4a1, protein tyrosine phosphatase type IVA, member 1	protein tyrosine phosphatase 4a1, protein tyrosine phosphatase 4a2, protein tyrosine phosphatase type IV member 1, protein tyrosine phosphatase type IVA, member 2, protein tyrosine phosphatase type IV member 3
				solute carrier family 22 (organic cation	EST, Moderately similar to LC4884 organic cation transporter protein z-1 rat [E.norvegicus]. EST, Weakly similar to OCAV EMES ORGANUS CREATER (E.norvegicus). EST, Weakly Semilar to OCAV EMES ORGANUS CREATER (E.NORVEGICUS CREATER). EST, Fighy similar to OCAVE, HUMAN ORGANIC CATION/CARNITINE TRANSPORTE [Z.Happlens]. EST, Fighy) similar to OCAVE, HUMAN ORGANIC CATION/CARNITINE TRANSPORTER (E.Happlens). Establishment of the Companic calcine transporters, Hopful similar to organic castlo transporters, 1 souther carrier fromly 22 (organic castlo transporters, 4 souther carrier fromly 22 (organic castlo transporters), member 5, solute carrier fromly 22 (organic castlo transporters), member 5, solute carrier fromly 22 (organic castlo transporters), member 5, solute carrier fromly 22 (organic castlo transporters), member 5, solute carrier fromly 22 (organic castlo transporters), member 5, solute carrier fromly 22 (organic castlo transporters), member 5, solute carrier fromly 22 (organic castlo transporters), member 5, solute carrier fromly 22 (organic castlo transporters), member 5, solute carrier fromly 22 (organic castlo transporters), member 5, solute carrier fromly 22 (organic castlo transporters), member 5, solute carrier fromly 22 (organic castlo transporters), member 5, solute carrier fromly 22 (organic castlo transporters), member 5, solute carrier fromly 22 (organic castlo transporters), member 5, solute carrier fromly 22 (organic castlo transporters), member 5, solute carrier fromly 22 (organic castlo transporters), member 5, solute carrier fromly 22 (organic castlo transporters), member 5, solute carrier fromly 22 (organic castlo transporters), member 5, solute carrier fromly 22 (organic castlo transporters), member 5, solute carrier fromly 22 (organic castlo transporters), member 5, solute carrier fromly 22 (organic castlo transporters), member 5, solute carrier fromly 22 (organic castlo transporters), member 5, solute carrier fromly 22 (organic castlo transporters), member 5, solute carrier fromly 22 (organ
1921	770	NM_031584 ,	k,x	transporter), member 2	carrier family 22, member 3
1922	18008	NM 031588	cc		[ESTs, Highly similar to NRG2_MOUSP PRO-NEUREGULIN-2 PRECUDUIN-2 PRECUDUIN-2 PRECUDUIN-2 PRECUDIN-2 (PRO-NRG2) [CONTAINS: INSUREGULIN-2 RNG-2) (DIVERGENT OF NEUREGULIN 1) (DON-1) [M. musculas], ESTs, Weak similar to NRG2_MOUSE PRO- NEUREGULIN-2 PRECURSOR (PRC NRG-2) [CONTAINS: NEUREGULIN-2 (NRG-2) (DIVERGENT OF NEUREGULIN 1) [CON-1] (M. musculus], neurguin 1

TABUE	BE HUMAN	HOMOTOGREY	EKIOTRATIONIK	100 季	Ang. Doekel No. 44924-5090 Doc. No. 179339
(D)	74		0000000	Norrologous Gana Varra	73 1 3 4 30
No.	ngewutter	area sequence	Model Gode	Name	ESTs, Highly similar to NRG2_MOU
		1		PRO-NEUREGULIN-2 PRECURSO	
					(PRO-NRG2) [CONTAINS:
	1			1	NEUREGULIN-2 (NRG-2)
				i	(DIVERGENT OF NEUREGULIN 1)
		i		1	(DON-1)] [M.musculus], ESTs, Weal
		1	ł	1	similar to NRG2_MOUSE PRO-
	1	1		1	NEUREGULIN-2 PRECURSOR (PR NRG2) (CONTAINS: NEUREGULIN-
				1	(NRG-2) (DIVERGENT OF
	1				NEUREGULIN 1) (DON-1)I
1922	18005	NM_031588	Jh .		[M.musculus], neuregulin 1
			1	1	ESTs, Highly similar to NRG2_MOU:
	ł	1	}		PRO-NEUREGULIN-2 PRECURSOF
	ł		1	i	(PRO-NRG2) (CONTAINS:
	i		1		NEUREGULIN-2 (NRG-2) (DIVERGENT OF NEUREGULIN 1)
	ļ		ł		(DON-1)] [M.musculus], ESTs, Weak
	ĺ	1		1	similar to NRG2_MOUSE PRO-
	i			1	NEUREGULIN-2 PRECURSOR (PR
	1	Į.		1	NRG2) [CONTAINS: NEUREGULIN-
			1		(NRG-2) (DIVERGENT OF
1922	18011	NM 031588	cc.General	1	NEUREGULIN 1) (DON-1)] IM.musculus], neuregulin 1
	10011	1411_001000	CO, COTICION	1	EST, Moderately similar to PRSA RA
				1	26S PROTEASE REGULATORY
	1		i	1	SUBUNIT 6A [R.norvegicus], EST,
	1		i	1	Weakly similar to PRS4 MOUSE 26S
		1		1	PROTEASE REGULATORY SUBUN
	1			1	4 [M.musculus], EST, Weakly similar to PRSA RAT 26S PROTEASE
				1	REGULATORY SUBUNIT 6A
				1	[R.norvegicus], ESTs, Moderately
				i	similar to PRSA RAT 26S PROTEAS
					REGULATORY SUBUNIT 6A
		İ	Ì		[R.norvegicus], expressed sequence
		Ì	i	proteasome (prosome,	Al325227, protease (prosome, macropain) 26S subunit, ATPase 1,
		l		macropain) 26S subunit,	proteasome (prosome, macropain)
				ATPase 3, proteasome	26S subunit, ATPase 3, proteasome
			1	(prosome, macropain) 26S	(prosome, macropain) 26S subunit,
1923	1584	NM_031595	k	subunit, ATPase, 3	ATPase, 3
		1		1	Mus musculus adult male small
					intestine cDNA, RIKEN full-length enriched library, clone:2010001F03,
		l	l		full insert sequence, glutathione
		1			reductase 1, thioredoxin reductase 1,
					thioredoxin reductase 2, thioredoxin
924	24235	NM_031614	v	thioredoxin reductase 1	reductase beta
					Mus musculus adult male small
	1				intestine cDNA, RIKEN full-length
	1				enriched library, clone:2010001F03, full insert sequence, glutathione
					reductase 1, thioredoxin reductase 1,
					thioredoxin reductase 2, thioredoxin
924	24234	NM_031614	General	thioredoxin reductase 1	reductase beta
				1	EST, Moderately similar to A56043
					steroid hormone receptor-like protein RLD-1 - rat [R.norvegicus], expressed
					sequence AU018371, nuclear receptor
					subfamily 1, group H, member 3,
				nuclear receptor subfamily	nuclear receptor subfamily 1, group H
925	1639	NM 031627	i.i.v	1, group H, member 3	member 4

TABLE	es mans	M HOWOTOGRE	ANNOTATIONS		Athy. Docket No. 44924-51551 Dos. No. 179330
339, [6 No.		GonBorth Ace. or Ref. Seq. (D N	y Model@ode	Mamalagava Gana	Manchese Store arms
1926	1727	NM_031642	m,General	core promoter element	EST, Moderately similar to CPBP R: CORE PROMOTER ELEMENT- BINDING PROTEIN [R. norvegicus], ESTS, Moderately similar to CPBP RAT CORE PROMOTER ELEMENT BINDING PROTEIN [R. norvegicus], Kruppel-like factor 3 (basic), Kruppel- like factor 5, Kruppel-like factor 7 (ubiquitous), core promoter element bilanding protein
1927	20766	.lnm_031643	y	mitogen activated protein kinase kinase 2, mitogen- activated protein kinase kinase 2	(ESTs. Highly similar to MPKH MOUS DUAL SPECIFICTY MITOGEN- JOURN SPECIFICTY MITOGEN- ACTIVATED PROTEIN (KINASE   KINASE 1   Museusula), ESTS,   Modaratally similar to MPK1, FILMAN ACTIVATED PROTEIN (KINASE   KINASE 1 (H. aspieral), Museuman KINASE 1 (H. aspieral), Museuman KINASE 1 (H. aspieral), Museuman KINASE 1 (H. aspieral), Museuman Sequence, mitogen activated protein Kinase Kinase 1, mitogen activated protein kinase kinase 3, mitogen activated protein kinase kinase 1, mitogen Kinase 1, mitogen-sclivated protein Kinase 1, mitogen-sclivated protein Kinase 1, mitogen-sclivated protein Kinase 1, mitogen-sclivated protein Kinase 1, mitogen-sclivated protein Kinase 1, mitogen-sclivated protein Kinase 1, mitogen-sclivated protein
1929	1993	NM 031655	lk,l,m,General	latexin, latexin protein	latexin, latexin protein, retinoic acid receptor responder (tazarotene linduced) 1
1930	2057	NM_031660			Human DNA sequence from clone RP5-822J19 on chromosome 20. Contains an alpha-endosulfine pseudogene, STSs and GSSs, cyclic AMP phosphoprotein, 19 kD, cyclic AMP phosphoprotein, 19kD, endosulfine alpha
1931	15039	NM_031672	k,General	solute carrier family 15 (H+/peptide transporter), member 2	EST. Moderately similar to PETZ RAT- OLIGOPEPTIDE TRANSPORTER, KIDNEY ISOFORM (R. norvegicus), EST. Moderately similar to PETZ, HUMAN OLIGOPEPTIDE TRANSPORTER, KIDNEY ISOFORM (H. seplens), expressed sequence C78862, solute carrier family 15 (H+/peptide transporter), member 2
					12-4-dienoyl-Coenzyme A reduclase 2, peroxisomal, ESTs, Weakly similar to HCD2 RAT 3-HYDROXYACYL-COA DEHYDROGENASE TYPE II [R.norveglcus], H2-K region expresser gene 6, hydroxyacyl-Coenzyme A dehydrogenase, type II, hydroxyprostaglandin dehydrogenase 15 (NAD), hydroxysteroid (17-beta) dehydrogenase 10, hypothetical protein FLI14431, refinal short-chain
932	15175	NM_031682	bb	golgi SNAD moneto-	dehydrogenase/reductase retSDR3
933	1004	NM 031685	l.	golgi SNAP receptor complex member 2	golgi SNAP receptor complex member

MABLE	S: CHUMAN	THOMOTOGUE A	SMOJNATIONS	May disperse of and	Ally, Doctor No. 449X-50
900 (0)	A.	(Gen Dank Ass.)		Marrichpprus Gano	Doc. No. 1798
NO.	Monthler	Ref. Seq. 10 No.	Model Gode	Name :	Homologous Giveter Namo
1934	19727			ubiquifin A-52 residue ribosomal protein fusion	EST, Moderately similar to 16523 ublquitin/fibosomal protein L40 - [R.norvegicus]. Homo sapiens ubiquitin-like fusion protein mRN. complete cds, RIKEN LONA 0610006J14 gene, Rattus norveg RSD-7 mRNA, complete cds, ubl 4-52 residue ribosomal protein fu
1934	19/2/	NM_031687	a,q,s	product 1	product 1 ESTs, Weakly similar to A39484
1935	20404	NM_031700	i.r.y	claudin 3	androgen-withdrawal apoptosis p RVP1, prostatic - rat [R.norvegicu claudin 12, claudin 3, expressed sequence Al182374
1935	20405	NM_031700	o,r	claudin 3	ESTs, Weakly similar to A39484 androgen-withdrawal apoptosis pr RVP1, prostatic - rat [R.norvegicu claudin 12, claudin 3, expressed sequence A1182374
					PRO0195 protein, collapsin respondiator protein 5, collapsin respondiator protein-5; CRMP3-assomolecule, dihydropyrimidinase.
	1		_		dihydropyrimidinase-like 2,
1936	811	NM_031705	General	dihydropyrimidinase	dihydropyrimidinase-related prote
1936	812	NM_031705 :	o,v,bb.General	dihydropyrimidinase	PRO0195 protein, collapsin respo mediator protein 5, collapsin respo mediator protein-5; CRMP3-assoc molecule, dihydropyrimldinase, dihydropyrimidinase-related protei
1937	16204	NM_031706	q.bb	,	LEST, Moderately similar to RSB, HUMAN 40S RIBOSOMAL PROTEIN S (H. sapiens), EST, we similar to 40S RIBOSOMAL PROT SB (IM. musculus), EST, Weakly sir to 40S RIBOSOMAL PROTEIN SY (P. norvegious), ESTs, Moderately similar to RSB, HUMAN 40S RIBOSOMAL PROTEIN S (H.sapiens) RIBOSOMAL PROTEIN S (H.sapiens) RIKEN CDNA 111000BP08 gene, ribosomal protein SB
					EST, Moderately similar to RSB_HUMAN 40S RIBOSOMAL PROTEIN S [H. sapiens]. EST, We isimilar to 40S RIBOSOMAL PROT SB [M.musculus]. EST, Weakly sin to 40S RIBOSOMAL PROTEIN SB [R.novegicus]. ESTs, Moderately similar to RSB_HUMAN 40S RIBOSOMAL PROTEIN S [H.sapie
1937	16205	NM_031706	a,y		RIKEN cDNA 1110008P08 gene, ribosomal protein S8 ESTs, Weakly similar to
					G100_HUMAN 110 KDA CELL MEMBRANE GLYCOPROTEIN [H.sapiens], cell membrane glycoprotein, 110000M(r) (surface
1938	24081	NM_031708	m		antigen) ESTs, Highly similar to R3HU12 ribosomal protein S12, cytosolic

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The state of	September 1	HOWOTOGREYA	Molavions		Any, Dockof No. 44921 4 Doc. No. 17
Nie.	Identifier	GanBank Accil Rat. Seq. ID No.	Model Cab	Marmo Namo	Howelogous Cluster thm
					ESTs, Weakly similar to T3022 multiple PDz domain protein - MR musculus (ESTs, Weakly so MR musculus) (ESTs, Weakly so MR musculus) (ESTs, Weakly so MR musculus) (EST) domain containing 1. channel-interaction domain protein hypothetical pierluzgriss, multiple PDz domain containing 1. channel-interaction domain protein hypothetical pierluzgriss, multiple PDz domain protein, semafi cytoplasmic do associated protein 3. solute ca family 9 (sodium/hydrogen sec isoform 3 regulatory factor 1, s carrier family 9 (sodium/hydrogen sechanger), isoform 3 regulatory factor 1,s carrier family 9 (sodium/hydrogen sechanger), isoform 3 regulatory factor 1,s carrier family 9 (sodium/hydrogen sechanger), isoform 3 regulatory factor 1,s carrier family 9 (sodium/hydrogen sechanger), isoform 3 regulator 1.
1940	1081	NM_031712	General	PDZ domain containing 1	2, syntaxin binding protein 4 ESTs, Highly similar to S71429
1941	1340	NM 031715	b,n,u,cc,General	phosphofructokinase, muscle	phosphofructokinase, muscle - [R.norvegicus], Mus musculus i male stomach cDNA, RIKEN fu enriched library, clone:2210403 full insert sequence, expressed sequence AA407869, phosphofructokinase, liver, B-ty- phosphofructokinase, muscle
1942	23884	NM_031731	j.s	aldehyde dehydrogenase 3 family, member A2, aldehyde dehydrogenase family 3, subfamily A2	ESTs, Weekly similar to DHA4 FATTY ALDEHYDE DEHYDROGENASE [R.norvegi RIKEN cDNA 170005N04 gen RIKEN cDNA 170005SN04 gen aldehyde dehydrogenase 3 fam member A2, aldehyde dehydrog family 3, subfamily A2, express sequence AI848594
1943	10241	NM 031740	d	UDP-Gat betaGicNAc beta 1.4- palactosyltransferase, polypepide 6, UDP- Gat betaGicNAc beta 1.4- gatactosyltransferase, polypepide 6	ESTA, Highly similar to N- ACETULACTOSAMINE SYNT [M.msculus], UDP-Gabbetgic bota 14, -galactosyliransferase, polypopide 1, UDP-Gabbetgic beat 14, -galactosyliransferase, polypopide 2, UDP-Gabbetgic beat 14, -galactosyliransferase, polypopide 3, UDP-Gabbetgic beat 14, -galactosyliransferase, polypopide 3, UDP-Gabbetgic beat 14, -galactosyliransferase, polypopide 3, UDP-Gabbetgic beat 14, -galactosyliransferase, polypopide 3, UDP-Gabbetgic beat 14, -galactosyliransferase, polypopide 3, UDP-Gabbetgic beat 14, -galactosyliransferase, polypopide 3, UDP-Gabbetgic beat 14, -galactosyliransferase, polypopide 3, UDP-Gabbetgic beat 14, -galactosyliransferase, polypopide 3, UDP-Gabbetgic beat 14, -galactosyliransferase, polypopide 3, UDP-Gabbetgic
				solute carrier family 2 (facilitated glucose transporter), member 5, solute carrier family 2 (facilitated glucose/fructose	Mus musculus, clone MGC:829! IMAGE:3593581, mRNA, compi cds, glucose transporter protein solute carrier family 2 (facilitate glucose transporter), member 5, carrier family 2 (facilitated gluco transporter), member 9, solute c femily 2 (facilitated ducose/fruct

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VABUE	es hunan	HOMOLOGUEA	NNOTATIONS		Any Codici no. 44221-503200 Dog no. 1772327
Seq. (F	) Uconting	Gent Bends Accul Roll Goog (ID No.	Model Gode	Homologous Gene Years	-termofornous Ofuster Nerco
1944	1215	NM_031741		solute carrier family 2 (facilitated glucose transporter), member 5, solute carrier family 2 (facilitated glucose/fructose transporter), member 5	Mus musculus, clone MGC:8298 IMAGE:3593581, mRNA, complete cds, glucose transporter protein 11, solute carrier family 2 (facilitated glucose transporter), member 5, solute carrier family 2 (facilitated glucose transporter), member 9, solute carrier family 2 (facilitated glucose framsporter), member 9, solute carrier family 2 (facilitated glucose/fructose transporter), member 5
					ESTs, Highly similar to C166 HUMAN CD166 ANTIGEN PRECURSOR (H sapiena), Lutheran blood group (Auberger b antigen included.), activated leucocyte cell adhesion molecule, activated leukocyte cell adhesion molecule, advanced alphoson molecule, advanced alphoson sold adhesion molecule, advanced alphoson and participation and product-specific receptor, melanomo cell adhesion
1945	20724	NM_031753	h		molecule  EST, Weakly similar to LIS1 MOUSE
1946	20753	NM. 031763	h		PLATELET-ACTIVATING FACTOR ACETYL-HYDROLASE IB ALPHA SUBBUNT (R. norvegicus), ESTs, Weakly similar to USI MOUSE PLATELET-ACTIVATING FACTOR ASSIGNATION OF ACTOR ASSIGNATION OF ACTOR ASSIGNATION OF ACTOR ACETYL-HYDROLASE IB ALPHA SUBBUNT (FLASE) PIGE, PLOSE ACTOR ACETYL-HYDROLASE IB ALPHA SUBBUNT (FLASE) profile, 1-box protein FBWY, KIAA0007 profile, U3 snoRNP- associated S5-bib profile, 1-box protein CHOSTON OF ACTOR ACETYL-BYDROLASE IB ALPHA SUBBUNT (FLASE) profile, 1-box protein CHOSTON OF ACTOR AC
1946	20752	NM 031763			EST, Weathy similar to LIST MÖUSE PLATELET-ACTIVATING FACTOR ACCETYLHYDROLASE IB ALPHA SUBUNIT R. NON-regicus), ESTs, Weathy similar to LIST MOUSE ACCETYLHYDROLASE IB ALPHA SUBUNIT (R. NON-RES) BALPHA SUBUNIT (R. NON-RES) BALPHA SUBUNIT (R. NON-RES) BALPHA SUBUNIT (R. NON-RES) BALPHA SUBUNIT (R. NON-RES) BALPHA SUBUNIT (R. NON-RES) BALPHA SUBUNIT (H. Sapiens), F-box protein FBVM, KIAMOON Forein, US anor-Res- sascciated SS-f-ba protein, -box and activating factor eapilyytotics, Ladom 1b, beta subunit, platelet, ladom 1b, beta subunit, platelet, activating factor eapilyytotics, Ladom 1b, beta subunit, platelet, activating factor eapilyytotics, Ladom 1b, beta subunit, platelet, activating factor eapilyytotics,
1946	14953	NM_031763	<u>'</u>	Rab acceptor 1	isoform lb, alpha subunit (45kD)
1947	14953	NM 031774 NM 031776	t.General	(prenylated)	quanine deaminase
1948		NM 031776	d,o,t,General		quanine deaminase

TABLE	e Guiman	HOMOLOGUEA	INO AMONS	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Atay, Doctot No. 44921-50890
830, ID Voi		Goodbank Accel	mas dan a	Homologous Gent)	
1949	1169	Ref. Seq. 10 Mo.	My configuration in the config	(Comp	Horiciogaus Glastar Nama ESTs, Highly similar to NFL2 RAT NUCLEAR FACTOR ERYTHROID 2 RELATED FACTOR 2 [R. novegicus ESTs, Weakly similar to NFL2 RAT NUCLEAR FACTOR ERYTHROID 2 RELATED FACTOR 2 [R. novegicus nuclear factor (erythroid-derived 2)-il 2, nuclear, factor, erythroid derived 2 like 2
		NM_031789	C		idefensin beta 1, defensin beta 2.
1950	16155	NM_031810 NM_031810	d,z		defensin, beta 1 defensin beta 1, defensin beta 2, defensin, beta 1
1951	17194	NM_031814	z	G protein-coupled receptor kinase-interactor 1	EST, Waskly similar to 14227 ADP Monyslation factor-directed GTPsas activating protein, Isoform a mouse (Musuculus), ESTs, Highly similar 1742827 ADP-ribosyslation factor-directed GTPsas activating protein, Isoform a mouse (Musuculus), Gorolin-coupled receptor kinase-directed CTPsas activating protein-coupled receptor kinase-directed CT, Aprotein-coupled or sense for size of the coupled of the
1952	17535	NM_031816	bb		GBLP_HUMÁN GUANINE  GREASUBUNT-LIKE PROTEIN 12.  BETA SUBUNT-LIKE PROTEIN 12.  BETA SUBUNT-LIKE PROTEIN 12.  FILZ1913 IB. CLOS MEPOSBB, HE TO SUBUNT-LIKE PROTEIN 12.  FILZ1913 IB. CLOS MEPOSBB, HE TO SUBUNT-LIKE PROTEIN 12.  FILZ1913 IB. CLOS MEPOSBB, HE TO SUBUNT-LIKE PROTEIN 13.  FILZ1913 IB. CLOS MEPOSBB, HE TO SUBUNT-LIKE PROTEIN 13.  FILZ1913 IB. CLOS MED SUBUNT-LIKE MEDICAL PROTEIN 13.  FILZ1913 IB. CLOS MEDICAL PROTEIN 13.  FILZ1913 IB.
					ESTS, Highly similar to A57288 probable serine/threonine protein kinase (M. musculus), ESTS, Highly similar to SNK, RAT SERINE/THREONINE-PROTEIN KINASE SNK, GERUM INDUCIBLE KINASE SNK, GERUM INDUCIBLE SKINEFINE SNK, SERINE/THREONINE-PROTEIN KINASE SNK, GERUM INDUCIBLE KINASE SNK, GERUM INDUCIBLE KINASE (SIR KONTORIJUS), GERUM INDUCIBLE KINASE (SIR KONTORIJUS), GYOKIne-inducible kinase, serine/threonine-inducible kinase, serine/threonine-kinase 18, serin-inducible kinase,
	2655 10167	NM_031821 NM_031830	i,l,m,aa ,	serum-inducible kinase	tousled-like kinase 2 (Arabidopsis) flotillin 1, flotillin 2
			o.t.u.General	lectin, galactose binding, soluble 3, lectin, galactoside-binding, soluble, 3 (galectin 3)	EST, Weakly similar to X-Ray Crysta Structure Of The Human Galectin-3 Carbohydrate Recognition Domain [H.sapiens], galectin-related inter-fibe protein

TABLE	S: HUMAN	HOMOLOGUFAI	CHIOTRATIONS		Ally, Deckel No. 4:1921-513977 Dog. No. 1793897
	Maniffer	Con Book Acc./ Ref. Seq. 10 No.	Model Gods	Homologous Gene Vame	Monologous Cluster Namo
1956	4748	NM 031834	e.t		expressed sequence AUSSA43, surforans ferase family 1A, phenoi- preferring, member 1, sulforansfersa- family 4A, member 1, sulforansfersa- family 4A, member 1, sulforansfersa- family, cytosolic, 1A, phenoi-preferring, member 1, sulforansferase family, cytosolic, 1A, phenoi-preferring, member 2, sulforansferase family, cytosolic, 1A, phenoi-preferring, member 3
1956	4749	NM_031834	0,1		expressed sequence AI266890, expressed sequence AI853843, sulfotansferase family 1A, phenol- preferring, member 1, sulfotransferase family 4A, member 1, sulfotransferase family, cytosolic, 1A, phenol-preferring member 2, sulfotransferase family, cytosolic, 1A, phenol-preferring, member 2, sulfotransferase family, cytosolic, 1A, phenol-preferring, member 3.
1957	7914	NM 031835			ESTs. Weakly similar to AGT2 RAT ALANINE—GLYOXYLATE AMINOTRANSFERASE 2 PRECURSOR (R.norvegicus), RIKEN CDNA 1300019H02 gene, RIKEN CDNA 2900006B13 gene, elanine- glyoxylate aminotransferase 2-like 1, ornithine aminotransferase 2-like 1, ornithine aminotransferase 2-like 1,
1958	8385	NM 031836	h		c-fos induced growth factor (vascular endothelial growth factor D), vascular endothelial growth factor, vascular
1958	8384	NM 031836	h		endothelial growth factor B  c-fos induced growth factor (vescular endothelial growth factor D), vascular endothelial growth factor, vascular endothelial growth factor B
1959	10268	NM 031838			sensitivities grown factors and sensitivities grown factors (SER) Agolyst similar for SE (SER) Agolyst similar for SE (SER) Agolyst similar for SES (SES) Ag

WEILE	So HI IMAN	HOMOLOGUEA	NNOTATIONS	NAME OF THE PARTY OF THE PARTY OF	Ally, (Dockot No. 44924-5089Wo
INDIES.	es incomes		000000000000000000000000000000000000000	Section Assessment	Dog. No. 17999971
399. ID Xo.		Confirmit Aced Total Scop (DA)	indicore	Mamalagaus Carro Marita	Momologous Gluster Nemo
4050					EST, Highly similar to 40S RIBOSOMAL PROTEIN S2 IMM ruscouta), EST, Highly similar to 40S RIBOSOMAL PROTEIN S2 similar to 508228 Ribosomal protein similar to 508228 Ribosomal protein 52, cytosofic Hisapienal, EST, Weakly similar to 508228 Ribosomal protein 52, cytosofic Hisapienal, EST, Highly similar to 508228 Ribosomal protein school of the similar to 50828 Ribosomal protein to 508228 Ribosomal protein to 40S RIBOSOMAL PROTEIN S2 [H.sapienal, EST, Moderative) similar to 40S RIBOSOMAL PROTEIN S2 [M.musculus], repeat family 3 gene,
1959	10269	NM_031838	aa a		ribosomal protein S2 IEST, Highly similar to 40S
					RIBOSOMAL PROTEIN S2 [M.musculus], EST, Highly similar to 40S RIBOSOMAL PROTEIN S2
					[R.norvejcus], EST, Moderately similar to S08228 ribosomal protein S2, cytosolic [H.sapiens], EST, Weakly similar to S08228 ribosomal protein S2, cytosolic [H.sapiens], ESTs, Highly similar to RS2, HUMAN 4D, RIBOSOMAL PROTEIN S2
					[H.sapiens], ESTs, Moderately similar to 40S RIBOSOMAL PROTEIN S2 [M.musculus], repeat family 3 gene,
1959	10287	NM_031838	n,aa		ribosomal protein S2 expressed sequence AU022220, hypothetical protein FLJ21032,
					stearoyi-CoA desaturase (delta-9- desaturase), stearoyi-Coenzyme A desaturase 1, stearoyi-Coenzyme A desaturase 2, stearoyi-coenzyme A
1960	15077	NM_031841	b		desaturase 3
1961	16726	NM 031855		ketohexokinase, ketohexokinase (fructokinase)	ketohexokinase, ketohexokinase (fructokinase)
901	110720	(NM_031035	1	calmodulin 1, calmodulin 1 (phosphorylase kinase,	(HUCIOKINGSE)
962	25802	NM_031969	a	delta)	
					Calmodulin III, ESTs. Highly similar to A Chain A. Calmodulin Complexed With Calmodulin-Binding Peptide From Smooth Muscle Myoish Light Chain Kinase (SUB 2-148 [H-sapiens], R.novegious Callil retropseudogene (done iambda SC27), RIKEN CDNA 2310086022 gene, calmodulin 1 (animodulin 1 calmodulin 1 calmodulin 1 calmodulin 1 (hospshorValse inase, delta).
				calmodulin 1, calmodulin 1 (phosphorylase kinase,	calmodulin 2, calmodulin 2 (phosphorylase kinase, delta),
1962	19191	NM_031969	c	delta)	calmodulin 3, calmodulin-like 3

TOMBLES	E HUMAN	ILO MOROGRE W	NINOTATIONS		Attly, Dooket No. 44921-6090 Dog, No. 177990
is in ID	Mantifilar	real from ID No.	Model Godo	Homologous Gene	Homologova Cluator Namo
1962	19195	NM_031969	F	calmodulin 1, calmodulin 1 (phosphorylase kinase, (delta)	Calmodulin III, ESTs, Highly similar A Chain A, Calmodulin-Gunduler Complexed With Calmodulin-Binding Peptide FF Smooth Muscles Myosin Light Chain Kinase (SUB 2-148 [H.aspiens], R. norvegious CalMi retropseudoger (cione lambda SC27), RIKEN CDNA 2310086022 gene, calmodulin, 2310086022 gene, calmodulin, (phosphonylase kinase, delta), calmodulin 2. (phosphonylase kinase, delta), calmodulin 2. (phosphonylase kinase, delta), calmodulin 2. (admodulin kile 3 dimodulin-kile 3 dimodulin-kile 3
				calmodulin 1, calmodulin 1 (phosphorylase kinase,	Calmodulin III, ESTs, Highly similar. A Chaia A, Calmodulin Complexed With Calmodulin-Binding Peptide Ryson Light Chain Kinase (SUB 2-148 [H.sapiens]. R. norvegicus Callii Irtiopseudogen (clone lambda SC27), RIKEN CDNA 2310058022 gene, calmodulin 1 (phosphorylase kinase, delta), calmodulin 1, calmodulin 2 (phosphorylase kinase, delta), calmodulin 2, calmodulin 2 (phosphorylase kinase, delta).
1962	19190	NM_031969	р	delta)	calmodulin 3, calmodulin-like 3
					EST, Weakly similar to HHHU27 hea shock protein 27 [H.sapiens], ESTs, Moderately similar to HHHU27 heat shock protein 27 [H.sapiens], crystallin, alpha C, heat shock 27kD
1963	17734	NM_031970	v,General		protein 1, heat shock 27kD protein 3
				heat shock 70kD protein 18, heat shock protein, 70	[ESTs, Weakly similar to BCHUIA S- 100 protine halp to she high kappiens, [ESTs, Weakly similar to S10A MOUS \$-100 PROTEIN, ALPHA CHAIN [M.musculus], Homo sapiens CDNA F-L10016 18, color HEMBA100053 RIKEN CDNA 8230217N242 gene, S100 calcium briding protein A1, 5100 calcium-briding protein A1, 5100 calcium-briding protein A1, 5100 calcium-briding protein A1, 5100 calcium-briding protein A1, 5100 calcium-briding protein A1, 5100 calcium-briding protein A1, 5100 calcium-briding protein A1, 5100 calcium-briding protein A1, 5100 calcium-briding protein A1, 5100 calcium-briding protein A1, 5100 calcium-briding protein A1, 5100 calcium-briding protein A1, 5100 calcium-briding protein A1, 5100 calcium-briding protein A1, 5100 calcium-briding briding bri
964 .	1475	NM_031971	v	kDa 1	1A, heat shock 70kD protein 1B
965 .	15470	NM_031978	1		proteasome (prosome, macropain) 26S subunit, non-ATPase, 1
966	18502	NM 031984	c	calbindin 1, (28kD), calbindin-28K	ESTs, Moderately similar to CALBINDIN [M.musculus], calbindin (28kD), calbindin-28K

VX(B)UE(	a Grigger	HOMOTOGUEA	BRIOTEN, ORIN	met, grige	Alty, Dodget No. 42924 4038W Dog. No. 1793897
Seg. D No.	Mar When	ComBank Ace/ Raf. Sec., (D/No.	Modrikenic	Homologous Gono Namo	Homologova Gluster Name
					ESTS, Highly similar to APBI FAT AMM-OID BETA APPECURSOR PROTEIN-BINDING FAMILY A MCMERTER 1, 19 CONTROL FAMILY A MCMERTER 1, 19 CONTROL FAMILY A MCMERTER 1, 19 CONTROL FAMILY A MCMERTER 1, 19 CONTROL FAMILY A MCMERTER 1, 19 CONTROL FAMILY A MCMERTER 1, 19 CONTROL FAMILY A MCMERTER 1, 19 CONTROL FAMILY A MCMERTER 1, 19 CONTROL FAMILY A MCMERTER 1, 19 CHILD FAMILY
1967	19768	NM 031986	v.aa.General	]	(syntenin), syntenin-2 protein
1968	723	NM 032084	0		¡ESTs, Weakly similar to T42724 p190 B protein - mouse [M.musculus], PTPL1-associated RhoGAP 1, RIKEN cDNA 1700026N20 gene, RIKEN cDNA 1700112.09 gene, chimerin (chimaerin) 2, minor histocompatibility antigen HA-1, oligophrenin 1, rho GTPase activating protein 5
				membrane interacting	hypothetical protein FLJ20207, membrane interacting protein of
1969	17935	NM_032615	a	protein of RGS16	RGS16
1970 1971	16831	NM_033095	n		
	25468	NM_033234	c,z		
1971	25469	NM_033234	c		
1971	17832	NM_033234	с,р	hemoglobin beta chain complex, hemoglobin, beta hemoglobin beta chain	
1971	17829	NM 033234	c.z	complex, hemoglobin, beta	
					ESTs, Highly similar to LDHH, HUMAN L-LACTATE DEHYDROGENASE H CHAIN [H:saplens], Lactate dehydrogenease B, RIKEN cDNA 1700124808 gene, lactate dehydrogenase 2, B chain, lactate dehydrogenase B, malate dehydrogenase 1, NAD (soluble),
1972	4723	NM_033235	Z		malate dehydrogenase, soluble
					Mus musculus, Similar to hydroxyacyl glutathione hydrolase, cione MGC:6697 IMAGE:3583919, mRNA, complete cds, RIKEN cDNA 1500017E18 gene, RIKEN cDNA 2810014123 gene, RIKEN cDNA C330022E15 gene, hydroxyacyl glutathione hydrolase, hypothelical
		1		glyoxylase 2, hydroxyacyl	protein MGC2605, protein expressed
1973	1409	NM 033349	p.General		in thyroid

	A EXPENSE	HOMOLOGUEA			Ally, Doctot No. 44221-50321 Dog. No. 179321
No. Om. ID	tanimor	Genternix Accul Ref. Seq. 10 No.	Model Gode	Homologous Geno Nama	Hamologous Gluster Name 🗸
1974	19998	NM_033352	3 General	*PDZ domain containing 1	ESTs, Weaky similar to T30259 multiple PDZ domain protein - mous [Mr. muscules] ESTs, Weaksy similar [Mr. muscules] ESTs, Weaksy similar [Mr. muscules] ESTs, Weaksy similar [Mr. muscules] ESTs, Weaksy similar [Mr. muscules] ESTs, Weaksy similar [Mr. muscules] ESTs, Weaksy similar [Mr. muscules] ESTs, Weaksy similar [Mr. muscules] ESTs, Semar ESTs, Souther americal family 8 (section/mytrogen exchange lausering 1 signal for fact 1, solved camer family 8 (section 3 mg-signal society fact 1) (solved protein) and solved protein 4 (solved mr. muscules) (solved mr. muscule
					ESTs, Moderately similar to S470731 finger protein I-PZP, Kruuppel-Righern, I-PZP, Kruuppel-Righern, ESTs, Moderately simila to 112489 lyochetical protein UKF2pS72P0920.1 [H. sapiens], EST Weakly similar to 1071 / MOLES TRANSCRIPTION FACTOR 17 IM, muscauks], ESTs, Weakly similar 2184_HUMAN ZINC FINOSER PROTEIN 186 (H. sapiens), express sequence AIPS099, uranscription
1975	1410	NM_052798	d	zinc finger protein 354A cysteine dioxygenase 1,	factor 17, transcription factor 17-like transcription factor 17-like 2 RIKEN cDNA 2900092E17 cene.
1976	15028	NM_052809	f	cytosolic, cysteine dioxygenase, type I	cysteine dioxygenase 1, cytosolic, cysteine dioxygenase, type I
1977	5176	NM_053297	u	pyruvate kinase 3, pyruvate kinase, muscle	
					EST, Moderately similar to S12583 polyublquitin 4 mouse (M.musculus Homo saplens UBBP2 pseudogene I ubiquitin UBB, RIKEN cDNA 2700054/O4 gene, diubiquitin, expressed sequence Al 194771, expressed sequence AL033289.
978	7660	NM_053299	i	diubiquitin, ubiquitin D	ubiquitin B, ubiquitin C CAT56 protein, EST, Weakly similar
		•		Homer, neuronal immediate early gene, 3,	A28996 proline-rich protein M14 precursor - mouse (M.musculus), ES' Weakly similar to JE0291 FB19 protein [H.sapiens], Homer, neuronal immediate early gene, 18, RWB-like protein 1, homer, neuronal immediate early gene, 2, proline rich immediate early gene, 2, proline rich
979	5117	NM_053310	р	early gene, 3	protein, proline nch protein 2, protein phosphalase 1, regulatory subunit 10 ESTs, Moderately similar to protein inhibitor of nitric oxide synthase [M.musculus], RIKEN cDNA 6720463E02 gene, Rettus norvegicus
				dynein, cytoplasmic, light chain 1, dynein, cytoplasmic, light	dynein light chain-2 (Dlc2) mRNA, complete cds, dynein, cytoplasmic, light chain 1, dynein, cytoplasmic, ligh
981	17473	NM_053319	a,v	polypeptide insulin-like growth factor	polypeptide
982	25480	NM_053329	g :	binding protein, acid labile subunit	

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20.070	23 1 5 5	IHOMOLOGUE <b>Z</b> A	NNOTATIONS		Ally, Docket No. 44924-533900 Doc. No. 1793887
89g.II No.		ConBenk Aced Ref. See. 10 No.	Model Gods	Homologous Gono Namo	Nomellegous Gluster Name
1982	-21977	NM 053329	v	Insufin-like growth factor binding protein, acid tabile subundt	ESTs, Waskly similar to ALS RAT INSULINALIZE GROWTH FACTOR BINDING PROTEIN COMPLEX ACID LIBITED TO COMPLEX ACID LIBITED COMPLEX ACID LIBITED COMPLEX ACID LIBITED COMPLEX ACID LIBITED COMPLEX
1902	21977	NM_053329	l	subunit	EST, Moderately similar to 2113200B
1983	" 14926	NM_053330	į.	ribosomal protein L21	ribosomal protein L21 (H. sapiera), EST, Moderately similar to RL21 MOUSE 608 RIBOSOMAL PROTEIN L21 (M. masculay, EST, Weekly similar to 21132008 Ribosomal protein L21 (H. sapiera), EST, Weekly similar to RL21 MUUSE 608 RIBOSOMAL, PROTEIN L21 (M. masculay), EST, Weekly similar to RL21 (H. MAN ISOS RIBOSOMAL PROTEIN L21 RIBOSOMAL
1983	14929	NM_053330 -	e.General	nbosomal protein L21	EST, McGenetely similar to 21132006 frozonal protein L2 [H sapplent]. EST, Moderately similar to Rt.21 MOUSE 669 RIGOSOMAL PROTEIN L7 [M. macoulus]. EST, Weakly similar to Rt.21 MOUSE 669 RIGOSOMAL PROTEIN L2 [H sapplent]. EST, Weakly similar to Rt.21 MOUSE 609 RIGOSOMAL PROTEIN L2 [M. macoulus]. EST, Weakly similar to Rt.21 MOUSE 609 RIGOSOMAL PROTEIN L2 [M. macoulus]. EST, Weakly similar to Rt.21 MOUSE 609 RIGOSOMAL PROTEIN L2 [M. moderately similar to Rt.21 Rt.3 food Sitilos SOMAL PROTEIN L2 [M. moderately similar to Rt.21 Rt.3 food Sitilos SOMAL PROTEIN L2 [Rt. moderately similar to Rt.21 Rt.3 food Sitilos SOMAL PROTEIN L2 [Rt. moderately similar to Rt.21 Rt.3 food Sitilos SOMAL Protein L2 [M. moderately similar to Rt.21 Rt.3 food Sitilos Somal Protein L2] moderately similar to Rt.21 Rt.3 food Sitilos Somal Protein L2 [M. moderately similar to Rt.21 Rt.3 food Sitilos Somal Protein L2 [M. moderately similar to Rt.21 Rt.3 food Sitilos Somal Protein L2 [M. moderately similar to Rt.21 Rt.3 food Sitilos Somal Protein L2 [M. moderately similar to Rt.21 Rt.3 food Sitilos Somal Protein L2 [M. moderately similar to Rt.21 Rt.3 food Sitilos Somal Protein L2 [M. moderately similar to Rt.21 Rt.3 food Sitilos Somal Protein L2 [M. moderately similar to Rt.21 Rt.3 food Sitilos Somal Protein L2 [M. moderately similar to Rt.21 Rt.3 food Sitilos Somal Protein L2 [M. moderately similar to Rt.21 Rt.3 food Sitilos Somal Protein L2 [M. moderately similar to Rt.21 Rt.3 food Sitilos Somal Protein L2 [M. moderately similar to Rt.2] [M. moderately similar to Rt.2] [M. moderately similar to Rt.2] [M. moderately similar to Rt.2] [M. moderately similar to Rt.2] [M. moderately similar to Rt.2] [M. moderately similar to Rt.2] [M. moderately similar to Rt.2] [M. moderately similar to Rt.2] [M. moderately similar to Rt.2] [M. moderately similar to Rt.2] [M. moderately similar to Rt.2] [M. moderately similar to Rt.2] [M. moderately similar to Rt.2] [M. moderately similar to Rt.2] [M. moderately similar to Rt.2] [M. moderately similar to Rt.2
1984	16407	NM 053332	c.e	cubilin (intrinsic factor-	DAA segment, Chr. 2, Wayne State University 84, propriesed, EST, Weskly similar to 170458 mitrinais factor 81 2 receptor Cubilla procursor (H. sapiente, ESTs, Moderately similar to 170456 mitrinais factor 81 2 receptor Cubilla procursor (H. sapiente, H. from sapiente NTZ-PRAMOUREZ, Pose merphopolarisch protein 1, cubilin (mitrinais factor 2004), expressed sequence, AUGZ750, platetel-derived growth factor, c polypetide, factorisch protein 1, cubilin (mitrinais factorism) processed professional protein 1, cubilin (mitrinais factorism) processed professional protein 1, cubilin (mitrinais factorism) processed protein 1, cubilin (mitrinais factorism) processed protein 1, cultivated protein 1, cultiva

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TABL	e funa	N HOMOLOGUE A	NNOTATIONS	Property of the	Any, Cocket No. 44974-503
Good II	0.1	GonBank Acal	1 2 2	1/1/	Deg. No. 1798
No.	, lideoffic	er Ref. Sen. 10 No.	Model @cop	Montalogous Guro Terro	Homolocous Oluster Name
				chromosome 19 open	
			1	reading frame 3, regulator of G-protein signaling 19	chromosome 19 open reading fram
1985	15790	NM_053341	j.x	interacting protein 1	hypothetical protein FLJ20075
			1	1	ESTs, Weakly similar to CGHU2S collagen alpha 2(I) chain precurso
					[H.sapiens], KIAA1026 protein, RI cDNA 1110030G05 gene, RIKEN
	1		1		cDNA 9030409G11 gene, collager
	1			1	type I, alpha 1, collagen, type I, ali
		ı			2, collagen, type II, alpha 1 (primal osteoarthritis, spondyloepiphyseal
		1	1		dysplasia, congenital), hypothetica
					protein FLJ20654, nischarin, procollagen, type I, elpha 1,
1986				collagen, type I, alpha 2,	procollagen, type I, alpha 2,
1986	9215	NM_053356 NM_053374	P	procollagen, type I, alpha	procollagen, type II, alpha 1 interleukin 18 binding protein
	1	1	1		ESTs, Weakly similar to NPT2 RA
					RENAL SODIUM-DEPENDENT PHOSPHATE TRANSPORT PROT
		1			2 [R.norvegicus], ESTs, Weakly sir
					to NPT2_HUMAN RENAL SODIUM
		j			DEPENDENT PHOSPHATE TRANSPORT PROTEIN 2 (H. sanie
		1	1		Homo sapiens, Similar to solute ca
		1	1	i	family 34 (sodium phosphate), mer 1, clone MGC:18179 IMAGE:4155
	1	1		1	mRNA, complete cds, Rattus
	1		ł		norvegicus mRNA for NaPi-2 alpha complete cds, Solute carrier family
		ļ			(sodium/hydrogen exchanger),
	i		1	1	member 2, expressed sequence
		i			A1649385, solute carrier family 34 (sodium phosphate), member 1, so
					carrier family 34 (sodium phosphate
1988	6416	NM_053380	General	small muscle protein, X-	member 2
1989	19113	NM_053395	a	linked	small muscle protein, X-linked
	1	1			ESTs, Highly similar to FMO3_HUN DIMETHYLANILINE
		1			MONOOXYGENASE [H.sapiens],
					Flavin-containing monooxygenase Homo sapiens DNA sequence from
	1				PAC 127D3 on chromosome 1q23-
	1				Contains FMO2 and FMO3 genes for
		1			Flavin-containing Monooxygenase and Flavin-containing Monooxygen
					3 (Dimethylaniline Monooxygenase
	1				Oxide 3, EC1.14.13.8, Dimethylanil Oxidase 3, FMO II, FMO 3), and a
	1				gene for another, unknown, Flavin-
				]	containing Moncoxygenase family protein, Contains ESTs and GSSs.
	1	1			protein. Contains ESTs and GSSs, flavin containing monooxygenase 1
					flavin containing monooxygenase 2
990	2242	NM 053433	n,General		flavin containing monooxygenase 3, hypothetical protein PRO1257
					RIKEN cDNA 1700065B19 gene,
					RIKEN cDNA 5730408C10 gene, zir finger protein 103, zinc finger protein
991	5561	NM 053438			tinger protein 103, zinc tinger proteil homologous to Zfp103 in mouse

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TABL	BO: MUINA	W HOMOTOGAL	enota tonna		Ally, Dockel No. 44927-503 Doc. No. 1793	
\$3G.∐ X6.	D Monthl	GerBenk Ac r Ref. Seq. ID	ed lo. Novidi©pado	Hamologous Genp Name	Mumologous Gluster Mano	
1992	14670	NM_053439	n,General		ESTs, Highly similar to RAB7 RAI RAS-RELATED PROTEIN RAB-7 [R.norvegicus], RAB7, member R oncogene family, RAN, member F oncogene family, RIKEN cDNA 1700009N14 gene	
1993	17102	NM_053440		stathmin-like 2, superiorcervical ganglia, neural specific 10	stathmin-like 2, stathmin-like 4, superiorcervical ganglia, neural specific 10	
					ESTs, Weakly similar to 1615347, p21 GTPase activating protein (M.musculus, I/AA1938 protein, musculus, Similar to RAS p21 pro- activator, cione MGC.7759 IMAGE:3498774, mRNA, complet cds, RAS protein activator like 2, Rattus novegious DCC2/DAB2 interactive protein mRNA, complet cds, expressed sequence BB079 cds, expressed sequence BB079	
1994	24762	NM_053442	General		hypothetical protein FLJ21438 ESTs, Moderately similar to RGS8	
1995	8085	NM 053453	General		RAT REGULATÓR OF G-PROTE: SIGNALING 8 (R. norvegicus), regulator of G-protein signaling 18 regulator of G-protein signaling 8, regulator of G-protein signaling 8, regulator of G-protein signaling 2, 24kD, regulator of G-protein signaling 2,	
1996	4622	NM 053463	d		NEFA precursor, expressed seque Al607786, nucleobindin, nucleobin	
				cytochrome c oxidase subunit IV isoform 2, cytochrome c oxidase,	1, nucleobindin 2 EST, Weakly similar to COX4_HUI CYTOCHROME C OXIDASE POLYPEPTIDE IV PRECURSO (H.Saplers), cytochrome c oxidase subunit IV, cytochrome c oxidase subunit IV, cytochrome c oxidase, subunit IV, cytochrome c oxidase, subunit IVa, cytochrome c oxidase, subunit IVa, cytochrome c oxidase, subunit IVa, cytochrome c oxidase, subunit IVa, pytochrome c oxidase, subunit IVb, expressed	
1997	21866	NM_053472	P	subunit IVb	sequence AL024441 protein tyrosine phosphatase 4a1,	
998	9573	NM_053475	h		protein tyrosine phosphatase 4a2, protein tyrosine phosphatase type member 1, protein tyrosine phosphatase type IVA, member 2, protein tyrosine phosphatase type I member 3	
999	16137	NM_053480	k		DNA polymerase alpha 2, 68 kDa, musculus, Similar to DNA polymera alpha 2, 68 kDa, clone MGC:1153 IMAGE:3602559, mRNA, complete cds, expressed sequence AI57337i polymerase (DNA-directed), alpha [70kD]	
	1				ESTs, Weakly similar to A Chain A, Importin Alpha, Mouse [M.musculus expressed sequence AW146299, karyopherin (importin) alpha 2,	
000	15556	NM_053483	у	ļ	karyopherin alpha 2 (RAG cohort 1, importin alpha 1) EST, Moderately similar to	
001	16394	NM 053485	General		CALCYCLIN [R.norvegicus], S100 calcium-binding protein A6 (calcyclin calcium binding protein A6 (calcyclin	

20.0		I KOMOLOGUF A			Ally: Doelet No. 4/1921-1937/ Doe. No. 177939
Son ID No.	lderillby	Ref. Sen. 10 No.	Meda Gode	Abinologous Gene Nams	Licensey - Cluster Name
2002	4290	NM 053487	i.y		peroxisomal biogenesis factor 11A,
					peroxisomal biogenesis factor 11B EST, Moderately similar to Y025 HUMAN HYPOTHETICAL PROTEIN KIAA0025 [H.sapiens], RIKEN eDNA 5031400MO7 gene, homocysteine-inducible, endoplasmi reticulum stress-inducible, ubiquitin- like domain member 1, hypothetical
2004	18826	NM_053523	ld		protein FLJ22313 DEAD/H (Asp-Glu-Ala-Asp/His) box
					polypepide, Y chromosome, DNA segment, Cri J, Pasteur Institute 1, ESTs, Moderately similar to DDXY_HUMAN DEAD BOX PROTEI 3, Y-CHROMOSOMAL [H.sapiens], KIAA0801 gene product, RNA helicase, Rattus norvegicus RNA helicase with arginine-serine-rich domain mRNA, complete cds, expressed sequence Al324246.
2005	7764	NM_053525	aa		expressed sequence Al325430, expressed sequence C86129
2006	14199 1058	NM_053538 NM_053539	c		Lysosomal-associated multispanning membrane protein-5, lysosomal- associated protein transmembrane 5
.007	1030	NW_033339	c,d	-	DNA segment, Chr 17, human
					D6881E 1, EST, Wasky similar to He47 PAT PAT PROBABLE ATP- DEPENDENT RNA HELICASE P47 (Ronvegicus), HLA-9 associated transcript 1, KIAA0111 gene product, Mas musculus, clone MGC-9694 (MAGEL-349954, mRTNA, complete sub- depth of the production of the production of sub-production production of sub-production of the production of sub-production of the production of
800	4327	NM_053563	General		box family
009	1342	NM_053573	h		ESTs, Weakly similar to JE0096 myocilin - mouse [M.musculus], Homo sapiens NOE3-4 (NOE3) mRNA, complete cds, alternatively spliced, expressed sequence AW742568, olfactomedin related ER localized protein
				anti-oxidant protein 2 (non- selenium glutathione peroxidase, ecidic calcium- independent phospholipase A2),	ESTs, Moderately similer to AOP2_HUMAN ANTIOXIDANT PROTEIN 2 [H.sapiens], anti-oxidant protein 2 (non-selenium glutathione peroxidase, acidic calcium- independent phospholipase A2),
010	19254	NM_053576	h,s :	peroxiredoxin 5	peroxiredoxin 5
010	19253	NM 053576		anti-oxident protein 2 (non- selenium glutathione peroxidase, acidic calcium- independent phospholipase A2),	ESTs, Moderately similar to AOP2_HUMAN ANTIOXIDANT PROTEIN 2 [H.sepiens], anti-oxidant protein 2 (non-selenium glutathione peroxidase, acidic calcium- independent phospholipase A2), peroxiredoxin 5

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Seg ID No	teentifor	Control Ace./ Rol Seq. (D No.	Mariel Gardo	Vlemelegous Gene Neuro	Homologous Chefor Name
2011	3049			, name	ESTs, Highly similar to JC7189 tubulointerstitial nephritis antigen [H.sapiens], P3ECSL, cathepsin B, lipocalin 7, tubulointerstitial nephritis
2011	3049	NM_053582	p,cc,Generat		antigen ESTs, Highly similar to JC7189 tubulointerstitial nephritis antigen [H.sapiens], P3ECSL, cathepsin B,
2011	3050	NM_053582	o,General		lipocalin 7, tubulointerstitial nephriti antigen EST, Moderately similar to CYTOCHROME C OXIDASE POLYPEPTIDE VB PRECURSOR
2012	21423 21445	NM_053586 NM_053587	s.y		[R.norvegicus], cytochrome c oxida subunit Vb, cytochrome c oxidase, subunit Vb
			167 -		ESTs, Weakly similar to MDP1 MOUSE MICROSOMAL DIPETIDASE PRECURSOR [IM. musculus]. ESTs, Weakly similar S33757 membrane dipeptidase [IM.musculus]. RIKE'N cDMA 1700018F16 gene, dipeptidase 1 (renal), putative dipeptidase, putativ
014	20871	NM_053591	μ		Imetallopepidase (family M19) ESTs. Weakly similar to MDP1 MOUSE MICROSOMAL DIPEPTIDASE PRECURSOR [M.musculus], ESTs, Weakly similer S33757 membrane dipepidase (M.musculus], RIKEN cDNA 1700018F16 gene, dipepidase 1 (renal), pulative dipepidase, putativ
	20870	NM_053591	1		metallopeplidase (family M19) protein tyrosine phosphatase, recep
015	21044	NM_053594	d k		type, R KIAO604 gene product, endothelin converting enzyme 1, endothelin converting enzyme 1, endothelin converting enzyme+like 1, expresses sequence AW322500, expressed sequenca BB127715, mel transform oncogene-like 1, membrane metallo endopeptidas
016	21708	NM_053596	z		KIAA0504 gene product, endothelin converting enzyme 1, endothelin converting enzyme-like 1, expressed sequence AW322500, expressed sequence BB127715, mel transformi oncogene-like 1, membrane metallo endopeptidase
17	1597	NM_053611		nuclear proten 1, p8 protein (candidate of metastasis 1)	ESTs, Weakly similar to Gene produ with similarity to Rat P8 [H.sapiens]
18	5565	NM_053618	General	Bardet-Biedl syndrome 2, Bardet-Biedl syndrome 2 (human)	
019	13004	NM 053623	1	fatty acid-Coenzyme A ligase, tong chain 4, fatty- acid-Coenzyme A ligase, long-chain 4	

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TABLE	e ciuman	HOVOROGIEV	SMOLEZ ONE		Ang. Dookof No. 4:4224-6003 Doo, No. 17933	
Sog (D No.	lefanilliter	GonBonta Acc./ Ref. Sag. 10 No.	Model Gode	Hamalagous Gana Nama	Chamologrous Cluster (Years)	
2020	,1127	NM_053626	9		D-amino acid oxidase, D-amino-acid Woalsy similar to OXDA RAT D- Month of Control oxidase, ESI Woalsy similar to OXDA RAT D- AMINO ACID OXIDASE IR. norvegicus), ESTS, Highly simila OXDA RAT D-AMINO ACID OXID. IR. norvegicus), RIKEN CDNA 5330420D20 gene, RIKEN cDNA 5730402020 gene	
2021	18644	NM_053648	n	beta-carotene 15, 15'- dioxygenase, beta- carotene 15,15'- dioxygenase	EST, Moderately similar to 080616 protein COII [M.musculus], EST, Weakly similar to 810024D cytoch oxidase II [H.sapiens]	
2022	21637	NM_053653	0		c-fos induced growth factor, c-fos induced growth factor (vascular endothelial growth factor D), vascu endothelial growth factor, vascular endothelial growth factor B, vascul endothelial growth factor C	
					ESTs, Highly similar to CG1C RAT G1/S-SPECIFIC CYCLIN C (R.norvegicus), Homo sapiens, cloi IMAGE:3537447, mRNA, partial of RIKEN CDNA 1810009010 gene, cyclin C, cyclin K, cyclin L, cyclin L	
2023	16121	NM_053662	ec		ania-8a, cyclin T2 with Glu/Asp-rich carboxy-terminal domain, 2, Cbp/o300-interacting transactivator, with Glu/Asp-rich carboxy-terminal domain, 4, ESTs, Weakly similar to MRG1_HUMAN MSG-RELATED PROTEIN [II. sapiens], expressed sequence AW742984	
2024	16122	NM 053698	h.j.z		with Glu/Asp-rich carboxy-terminal domain, 2, Cbp/p300-interacting transactivator, with Glu/Asp-rich carboxy-terminal domain, 4, ESTs, Weakly similar to MRG1_HUMAN MSG-RELATED PROTEIN [IH.4spiens], expressed sequence 1AW742964	
2025	25379	NM_053713	General			
2025	13622	NM 053713	General		ESTs, Moderately similar to CPBP RAT CORE PROMOTER ELEMEN BINDING PROTEIN (R.norvegicus) Kruppel-like factor 4 (gut), RIKEN cDNA 7420700M05 gene, core promoter element binding protein	
2026	15376	NM_053747	h	ubiquilin 1		
2027	1218	NM_053748	b		expressed sequence C86324, hypothetical protein FLJ23590	
2028	1137	NM_053763	у		cytochrome P450, 40 (25- hydroxyvitamin D3 1 alpha- hydroxylase), cytochrome P450, subfamily XXVIIB (25-hydroxyvitam D-1-alpha-hydroxylase), polypeptidi MKP-1 like protein tyrosine	
2029	15996	NM_053769	cc	dual specificity phosphatase 1, protein tyrosine phosphatase, non- receptor type 16	phosphatase, dual specificity phosphatase 1, dual specificity phosphatase 13, dual specificity phosphatase 14, dual specificity phosphatase 2, expressed sequence B8104621, protein tyrosine phosphatase, non-recaptor type 16	

1.00	1 2 6	V.HOWOTOGNE			Ally, Dookel No. 442X Dog. No. 9
(XO)	rindille	Consonk Acc. II Rei Seg. ID N	# Day   Model Code :-	Managers Care	   John Diognas Chister Na
2030	8652	NM_053774	9	ubiquitin specific protease	KIAA1453 protein, RIKEN cl 4930511O11 gene, express sequence AA409661, ubiqui protease 2, ubiquitin specific 8
2031	14664	NM_053806	General		
2032	4361	NM_053812	,k		B cell lymphoma 2 like, BCL antagonist/killer 1, BCL2-like protein, Bcl2-like, Mus musc BAK1 (Bak1) mRNA, comple ellematively spliced, RIKEN 1051003 1G08 gene
2034	15002	NM_053819	b,x,bb,General		EST, Moderately similar to T METALLOPROTEINASE INI PRECURSOR [R. norvegicus Weakly similar to TIM1 RAT METALLOPROTEINASE INI PRECURSOR [R. norvegicus inhibitor of metalloproteinase (arythroid potentiating activit collagenase inhibitor)
2034	15003	NM 053819	b.l.x.bb.General		EST, Moderately similar to Ti METALLOPROTEINASE IN- PRECURSOR [R.norvegicus Weakly similar to TIM1 RAT METALLOPROTEINASE IN- PRECURSOR [R.norvegicus; inhibitor of metalloproteinase (erythroid potentiating activity collagenase inhibitor)
2035	16173	NM 053822	It	1	ourage note with billery
2036	17154	NM_053835	j,z		
2037	20868	NM_053843	1		
2037	20869	NM_053843	)		ESTs, Highly similar to CNT1 SODIUM/NUCLEOSIDE COTRANSPORTER 1 [H.sap ESTs, Moderately similar to A Na+-dependent nucleoside In protein cNT1 - rat IR. norvegic
2041	19781	NM 053883	b		ESTs. Moderately similer to E RAT DIAL SPECIFICITY PR PHOSPHATASE 6 (R. norvegi ESTs. Weakly similar to DUS DIAL SPECIFICITY PROTE! PHOSPHATASE 6 (R. norvegi dual specificity phosphatase 13, di specificity phosphatase 14, di specificity phosphatase 6, du specificity phosphatase 6, du specificity phosphatase 6, du specificity phosphatase 9, ex- sequence BB104621, mitoger activated protein kinase phosp- cultivated protein kinase phosp- sectivated protein kinase phosp- teceptor (ype 1)

TABLE	ia: Muman	HOMOROGUEA	NNOVATIONS	<b>表示是 的过</b>	Aug. Docket No. 4/49/1-50390 Doc. No. 17/4883
30g, flè Vo.		ConBent: Accul Ref. Seq. (D No.		Monodogova Cero Nanco	# Progress
2041	19780	NM_053883	b		ESTs, Moderately similar to DUSS RAT DUAL SPECIFICITY PROTEIN PHOSPHATASE 6 (R. norvegicus). ESTs, Weaks, jamiar to DUSS RAT, DUAL SPECIFICITY PROTEIN PHOSPHATASE 6 (R. norvegicus). Gual specificity proteinates 10, dual specificity phosphatase 10, dual specificity phosphatase 10, dual specificity phosphatase 3, dual specificity phosphatase 9, accesses sequence BB104621, milogen- cativated protein kinase phosphatas x, protein tyrosine phosphatase, non receptor by e1 of
2042	1454	NM_053887	General		
2043	1660	NM_053891	g		ESTs, Moderately similar to CDSR MOUSE CYCLIN-DEPENDENT KINASE 5 ACTIVATOR 1 PRECURSOR (R.norvegicus), cyclin- dependent kinase 5, regulatory subur (p35), cyclin-dependent kinase 7, regulatory suburit 1 (p35), cyclin- dependent kinase 5, regulatory suburit 2 (p39)
2044	712	NM_053896	k .		1-36-47
2045	753	NM_053897	k		coagulation fector II (thrombin) receptor-like 1, coagulation factor II (thrombin) receptor-like 2
2046	794	NM_053902	General		RIKEN cDNA 4432411A05 gene, kynureninase (L-kynurenine hydrolasi ESTs, Weakly similar to
2047	17937	NM_053911	ı	10.00	ARNO_HUMAN ARF NUCLEOTIDE- BINDING SITE OPENER [H.sapiens]
2048	8188	NM 053927	General		IDMA segment, Chr 10, ERATO Del 388, expressed, EST, Westley, simila to PTIN, RAT PROTEIN TYROSINE PHOSPHATARS, KONN-RECEPTOR TYPE 21 (R. norvegicus), Homo sapients, Similar to eyrhocyfe appients, Similar toe, similar potent bard 4 i Nies appients, Similar toe, Martin structura putent bard selection, similar potential potent

1 - 1		THOMOLOGUEA		· 大学 (1)	Aug. Docket No. 44929-51000 Doc No. 179330
899, (D Xo.	Mealifier	GunBank Areal Ref. Seq. (DND)	മാവിയും	Hamalagaus Garo Namo :	January Gretor (Arms
2050	1628	NM_053936	h		endohelal differentiation, lyscohosphatidic acid G-protein- coupled reaptor 4, endohelal acid general differentiation, lysophosphatidic acid protein-coupled reaptor 7, endohelal differentiation, lysophosphatidic acid protein-coupled reaptor 2, endohelal differentiation, lysophosphatidic acid protein-coupled reaptor, 4, and otheral differentiation, lysophosphatidic acid protein-coupled reaptor and protein- coupled receptor, 7, buttor protein-coupled receptor, 7, buttor protein-coupled receptor, 79, buttor SCSTs. lightly almat to B42509 must SCSTs. an scan scan scan scan scan scan
2051	13954	NM_053955	General		crystallin [H.sapiens], crystallin, mu
2052	19991	NM 053961	General		DNA segment, Chr 9, ERATO Dol 85, expressed, Homo sapiens aconitase precursor (ACON) mRNA, nuclear gene encoding mitochondrial protein, partial cds, RICEN CDNA 503140962 gene, aconitase 1, sconitase 1, soluble, aconitase 2, mitochondrial, iron-responsive element-binding protein
2052	16190	NM 053961	a		Homo aspiens hepatocallular cardinoma-associated antigen 64 (HCA64) mRNA, complete cds, RIKEN CDNA 1300014E15 gene, RIKEN CDNA 1300017C12 gene, RIKEN CDNA 1300017C12 gene, RIKEN CDNA 2610009MZ0 gene, RIKEN CDNA 2610009MZ0 gene, RIKEN CDNA 4933417A18 gene, export Coenzyma A hydraiasa, short chain, rangyl-Coal isomerase, percoisand delta3, delta2-enoyl-Coenzyme A hydraiasa, delta2-enoyl-Coenzyme A lisomerase, percoisand delta3, delta2-enoyl-Coenzyme A lisomerase, percoisand delta3, delta2-enoyl-Coenzyme A lisomerase.
2052	21355	NM_053961	j,l,y,z		
2055	15136	NM_053971	<b>aa</b>		EST, Moderately similar to IS1803 TAXREB107 (H.sapiens), ESTs, Hight similar to IS1803 TAXREB107 [H.sapiens], ribosomal protein L6 EST, Moderately similar to IS1803 TAXREB107 [H.sapiens], ESTs, Hight
2055	15135	NM_053971	d		similar to I51803 TAXREB107 [H.sapiens], ribosomal protein L6 ESTs, Highly similar to A26411
2056	1764	NM_053974	h		translation initiation factor eIF-4E [H.sapiens], RIKEN cDNA 2700069E09 gene, eukaryotic translation initiation factor 4E
2057 :	1292	NM_053980	. !		ADP-ribosylation factor related protein 1, RIKEN cDNA 1500006i01 gene
2058	15468	NM 053982	q		17. NAEPLECHAR 30000001 gene EST, Highly similar to 405 RIBOSOMAL PROTEIN S15A RIBOSOMAL PROTEIN S15A RS1A, HUMAN 40S RIBOSOMAL PROTEIN S15A (R.norvegicus), ESTS, Weakly similar to RS1A, HUMAN 40S RIBOSOMAL PROTEIN S15A [H.sapiens]
2059	15642	NM_053985	General		[R.norvegicus], H3 histone, family 3A, H3 histone, family 3B, H3 histone, family 3B (H3.3B)

		HOMOTOGAE W	SKONVALOVIK	the swar witch	Ally, Docket No. 44921-5939V Doc. No. 1793897
839, ID No.	Montifler	ConBarth Ace./ Raf. Scop. 10 No.	Model Gode	Hamologous Com Xemo	Homologous Gluster Namo
2060	21066	NM_054001			CD36 antigen (collagen type I receptor, thrombospondin receptor)-like 2 (lysosomal integral membrane protein II), EST, Moderately similar to LYIL_HUMAN LYSOSOME MEMBRANE PROTEIN II [H.sapiens]
2061	17326	NM_054008			RGC32 protein, RIKEN cDNA 1190002H23 gene
2061	17327	NM 054008	cc		RGC32 protein, RIKEN cDNA 1190002H23 gene
2061	17329	NM 054008	g,o,cc		RGC32 protein, RIKEN cDNA 1190002H23 gene
2062	25253	NM_057099	J.I,m.p.z	proteasome (prosome, macropain) subunit, beta type 6, proteasome (prosome, macropain) subunit, beta type, 6	EST, Weakly similar to \$17522 multicatalytic endopeptidase complex [H-sapiens], ESTs, Weakly similar to PROTEASOME DELTA CHAIN PRECURSOR (R.norvogicus), professome (prosome, macropain) subunit, beta type 6, protessome (prosome, macropain) subunit, beta type 6, protessome (prosome, macropain) subunit, beta type 6, protessome (prosome, macropain) subunit, beta type 6, protessome (prosome, macropain) subunit, beta type 6, protessome (prosome, macropain) subunit, beta type 6, protessome (prosome, mecropain) subunit, beta type 7.
2062	22849	NM_057099 ,	u	proteasome (prosome, mecropain) subunit, bete type 6, proteasome (prosome, macropain) subunit, beta type, 6	LEST, Weakly similar to \$17522 multicatalytic ecomplex (H. sapiens), ESTs, Weakly similar to PROTEASOME DELTA CHAIN PRECURSOR (R.norvegicus), proteasome (prosome, macropain) subunit, beta type 6, proteasome (prosome, macropain) subunit, beta type 6, proteasome (prosome, macropain) subunit, beta type 6, proteasome (prosome, macropain) subunit, beta type 6, proteasome (prosome, macropain) subunit, beta type, 6, proteasome (prosome, macropain) subunit, beta type, 6, proteasome (prosome, macropain) subunit, beta type, 7
2063			b,cc	A kinase (PRKA) anchor	adddint, deta type, 7
				protein (gravin) 12  UDP glycosyltransferase 1 family, polypeptide A cluster, UDP glycosyltransferase 1 family, polypeptide A6, UDP- glucuronosyltransferase 1	
			w	family, member 1 UDP glycosyltransferase 1 family, polypeptide A cluster, UDP glycosyltransferase 1 family, polypeptide A6, UDP- glucuronosyltransferase 1	
1064	15126	NM_057105 .i		family, member 1 UDP glycosyltransferase 1 family, polypeptide A cluster, UDP-	
064	15125	NM_057105		glucuronosyltransferase 1 family, member 1	
		NM_057114 n			EST, Moderately similar to TDX2_HUMAN THIOREDOXIN PEROXIDASE 2 [H.sapiens], EST, Weakly similar to TDX2_HUMAN THIOREDOXIN PEROXIDASE 2 [H.sapiens], peroxiredoxin 1

TABLE	OR HUMAN	THOMOTOGUEA	RICITATIONE	10 mg 14 mg	Atty. Doctor No. 43921-3189 Doc. No. 177393
307, ID		Gordent Ace/ Rof. Sec. (D No.		Admologous Gorna Namo	
			Jan 200 200 200 200 200 200 200 200 200 20	pacing .	BCS1 (yeast homolog)-like, ESTs, Highly similar to PRS4, HUMAN 26: PROTEASE REGULATORY SUBUI 4 (H.sapiens), ESTs, Weakly similar A44468 26S proteasome regulatory chain 4 [H.sapiens], expressed sequence Al325227, protease
					(prosome, macropain) 26S subunit, ATPase 1, proteasome (prosome,
2067	915	NM_057123	im.		.macropain) 26S subunit, ATPase, 1. ESTs, Weakly similar to PZUR MOUSE P2U PURINOCEPTOR 1 (M.musculus), G protein-coupled receptor 35, purinergic receptor P21 G-protein coupled 2, pyrimidinergic receptor P27, G-protein coupled, 4, pyrimidinergic receptor P2Y, G-proteic coupled, 5
2069	15151	NM_057131	k		Jecopies, o
2070	1892	NM 057144			cysteine and glycine-rich protein 3 (cardiac LIM protein), cysteine rich protein, cysteine-rich protein 2, cysteine-rich protein 3, thymus LIM protein
2071	12333	NM_057155	f		piotein
2071 2071	112331 712332	NM_057155 NM_057155	v,General f,General		
2072	17477	NM_057194	a,General		inch protein PRB3S (H.sapienal, EST Weeks) will mist not CoHU38 collagen alpha 3(IV) chain precursor, long applice from (H.sapienal, EST, Weeks) similar to D40759 potine-fich protein PRB1252 (H.sapienal, EST, Weeks) similar to D40759 potine-fich protein PRB1252 (H.sapienal, EST, Weeks) similar to L40254 Mm1 ceil dierhod transplantability associated protein in (H.sapiena), galectifi-related inter-fich common protein transplantability associated protein in (H.sapiena), galectifi-related inter-fich common protein transplantability associated protein in (H.sapiena), galectifi-related inter-fich common protein transplantability associated protein scrambiase 1, prospholipid scrambiase 3 (24-diernoty CA) and dudicase 1,
073	15408	NM 057197		2	mitochondrial, 2,4-dienoyl CoA reductase 2, peroxisomal, peroxisom trans 2-enoyl CoA reductase; putatiw
			p,t		short chain alcohol dehydrogenase 2,4-dienoyl CoA reductase 1, mltochondrial, 2,4-dienoyl CoA reductase 2, peroxisomal, peroxisom trans 2-enoyl CoA reductase; putative
2073	7866	NM_057197	1		abort chain alcohol dehydrogeneae ESTA, Highly simitar to PLRT, HUMA AMICOPHOSPHORBOSYLTRANSIR RASSE PRECURSOR III saplena; ESTA, Moderately simitar to AMICOPHOSPHORBOSYLTRANSIR RASE PRECURSOR III saplena); RIKEK DOMA 5703464C12 gene, expressed sequence 079946, gultariniar inuclose-8-phosphate arrasmirase 2 gultarinia-fluctose-9-phosphate phosphateloxyl yrgonosphate amidotransferase y

<b>B B B B</b>	6.250	HOWOTOGREY	1 3 1 10 1		Airy, Doolsel No. 44221-51000 Doo, No. 170000
3:4 <b>(D</b>	contitue	ConBonts Are./ Roll, Seq., (D.No.)	Model Gode	Homologous ©ano Nama	Admolegees Glosier Xame
2075	14125	NM_057208	h.j.y.z		ESTs, Highly similar to A25530 tropomyosin, fibroblast [H.sapiens]
2076	1743	NM_057210	k,s		EST, Moderately similar to RS22, HAMMY 405 RIBOSOMMA. PROTEINS 2F, EMONIQUIAL ST. ROBOSOMMA. PROTEINS 2F, EMONIQUIAL ST. ROBOSMA. PROTEIN SZ. ROBOSMA. PROTEIN SZ. ROBOSMA. PROTEIN SZ. PROTEIN SZ. PROTEIN SZ. ROBOSMA. PROTEIN SZ. PROTEIN SZ. ROBOSMA. PROTEIN SZ.
2077	8820	NM_078617 NM_080399	la in		protein S23
2079	15701	NM_080581	imyz		ATT-Indiang cassets, sub-damity C (CFTRAMPS), member 4 remulation and resistance-sascolated protein), ATT- indiang cassets, sub-damity C (CFTRAMPS), member 1s, ATT- briding cassets, sub-damity C (CFTRAMPS), member 1s, ATT- proteing cassets, sub-damity C (CFTRAMPS), member 2, ATT- proteing cassets, sub-damity C (CFTRAMPS), member 3, ATT- sets, sub-damity C (CFTRAMPS), member 4, ESTS, Moderately similar to JEGSS caralicater multispecific organic antion 1700/01830 genit can sub- damity C (CFTRAMPS), member 6, 18-185, Moderately similar to JEGSS caralicater multispecific organic antion 1700/01830 genit can sub- tance of the sub-damity of the sub-damity of the 1700/01830 genit can sub-damity of the 1700/01830 genit
2079	20105	NM_080581	aa		
2080	16109		c '		
2081	7108	NM_080766	d y		ESTs, Highly similar to COT2 RAT 2 COUP TRANSCRIPTION FACTOR 2 (Rnovregicus), Homo sapiens cDNs: FLU22189 fis, clone HRC01043, RIKEN cDNs 2700033K02 gene, nuclear receptor subfamily 2, group F, member 3, nuclear receptor subfamily 2, group F, member 2
2083	132	NM_080782	k		cyclin-dependent kinase inhibitor 1A (P21), cyclin-dependent kinase inhibitor 1A (p21, Cip1), cyclin- dependent kinase inhibitor 1B (p27, kip1), cyclin-dependent kinase inhibitor 1B (p27, Kip1)
1083 133	133	NM_080782	1		cyclin-dependent kinase inhibitor 1A (P21), cyclin-dependent kinase inhibitor 1A (p21, Cip1), cyclin- dependent kinase inhibitor 1B (p27, kip1), cyclin-dependent kinase inhibitor 1B (p27, Kip1)
2084	20122	NM_080887	General		HT014, Homo sapiens thioredoxin delta 3 (TXN delta 3) mRNA, partiel cds, RiKEN cDNA 4930429J24 gene, expressed sequence AU021712, thioredoxin, hioredoxin domeincontaining 2 (spermatozoa), thioredoxin-like (32kD), thioredoxin-like, 32kD), thioredoxin-like, 32kD), thioredoxin-like, 32kD, thioredoxin-like, 32kD, thioredoxin-like, 32kD, thioredoxin-like, 32kD, thioredoxin-like, 32kD, thioredoxin-like, 32kD, thioredoxin-like, 32kD, thioredoxin-like, 32kD, thioredoxin-like, 32kD, thioredoxin-like, 32kD, thioredoxin-like, 32kD, thioredoxin-like, 32kD, thioredoxin-like, 32kD, thioredoxin-like, 32kD, thioredoxin-like, 32kD, thioredoxin-like, 32kD, thioredoxin-like, 32kD, thioredoxin-like, 32kD, thioredoxin-like, 42kD, thiored

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	2 10 10 1	HOMOROGNEW	To 10 10 10	1 3 3 6 7	Alty, Dockto No. 44920-6 Doc No. 177
Seq. 10 No.	Monthlier	- Sendent Ace/ Rof. Seg. ID No.	Model Gode /	Homologous Gano Name	Jomellegous Claster Ven
					Homo sapiens, Similar to sele- binding protein 1, clone MGC: IMAGE:4155238, mRNA, com- cds, selenium binding protein
2085	6143	NM_080892 NM_080902	le ih		selenium binding protein 2
2000	9932	NW_000905	in .		
2087	17546	NM_130401	Ь		epithelial protein up-regulated carcinoma, membrane associa protein 17
2088	<b>√21695</b>	NM_130411	c,x		IESTs, Weakly similar to CO1A_MOUSE CORONIN-LIK PROTEIN P57 (CORONIN 1A) [M.musculus], coronin, actin bind protein 1A, coronin, actin bindi protein 1C, coronin, actin-bindi protein 1C, coronin, actin-bindi protein, 1A, hypothetical protei DKF2p7621166
					annexin VII, long form [H.sapie ESTs, Moderately similar to AN MOUSE ANNEXIN IV [M.muso ZAP 36/annexin IV, annexin A
2089	21391	NM_130416	x,General .		annexin A7
2090 2090	20694	NM_130430	General		
2090	19818	NM_130430	cc		ATP synthase, H+ transporting
2090	18810	NM 130430	e.s		transporting, mitochondrial F1 complex, alpha subunit, Isofom cardiac muscle, EST, Moderate similar to ATPA RAT ATP SYN ALPHA CHAIN, MITOCHONDR PRECURSOR (R.norvegicus), expressed sequence AL02366; expressed sequence AL02306;
2091	18293	NM_130433	9		expressed sequence AL023067
2092	25064	S45392	a.n		
2093	3244	S63519	u		
2094	25501	S63521	q		
2095	16248	S68135	h		
					EST, Weakly simitar to ENPL_I ENDOPLASMIN PRECURSOR (H. sapiens), ESTs, Highly simital HS9B RAT HEAT SHOCK PRO HSP 90-BETA (R.norvegicus), E Weakly simitar to ENPL_HUMA
2096	18647	S69316	q		ENDOPLASMIN PRECURSOR (II sapiens). Homo sapiens mit (DNA DKFZp584F053) (from cic DKFZp584F053) (RIKEN CDNA 1810014B01 gene, RIKEN CDN 2410002K23 gene, expressed sequence C81438, heat shock prot kDa 1, tumor rejection antigen of 1, tumor rejection antigen opp68 ATP-binding cassette, sub-famil (ALD), member 4, ESTs., Highly (ALD), Member 4, ESTs., Highly (ALD), Member 4, ESTs., Highly (ALD), Member 4, ESTS., Highly (ALD), Member 4, ESTS., Highly (ALD), Member 4, ESTS., Highly (ALD), Member 4, ESTS., Highly (ALD), Member 4, ESTS., Highly (ALD), Member 4, ESTS., Highly (ALD), Member 4, ESTS., Highly (ALD), Member 4,
2096	. 18647	S69316	q		[H sapiens], Homo sapiens mR CONA OKT26984F053 (from CDNA OKT26984F053), RIKEN CONA 1810014801 gene, RIKEN CONA 1810014801 gene, RIKEN CONA 2410002K23 gene, expressed sequence C61438, heat shock prot Most 1, tumor rejection antigen go96 (1, tumor rejection antigen go96 (1, tumor rejection antigen go96 (1, tumor rejection antigen go96 (1, tumor rejection antigen go96 (1, tumor projection antigen go96 (1, tumor projection antigen go96 (1, tumor rejection antigen go96 (1, tumor pector) (1, tumor rejection antigen go96 (1, tum
2096	18647	S69316 S74257	q .		[H sapiens], Homo sapiens mR COMA DKF25684F053 (from CLONA DKF25684F053), RIKEN cDNA 1810014801 gene, RIKEN CDNA 2410002K23 gene, expressed sequence C61438, heat shock prot kDB a 1, tumor rejection antigen gogs ATP-binding casette, sub-fami (ALD), member 4, ESTS, Highly to US564 ABC-transporting peroxisomal membrane protein [H, sapiens], ESTS, Moderately a

<b>国际政策</b>	A Marie San	и намогоей - у		日本學學的教	Ally, Docket No. 44921-50330 Doc. No. 1793397
939,1 10	o librotific	CONBONACO./ PROPROCESSOR DESIGNATION OF THE PROPERTY OF THE PR	Model Code	Momologous @ana Nama	Acmelogous Obster Namo
2099	1460 25539	\$76054 \$76742	il.m.x.y.General		DNA segment. Chr 15, Wayne State University 77, expressed, 521, Moderately similar to K2C8 RAT KERATIN, TYPE II CYTOSKELETAL IR. norvegicus], EST, Weakly similar to X1992 Keratin 8 II Haspiens; Le Norvegicus], EST, Weakly similar to X1992 Keratin 6 II Haspiens; Le Norvegicus], EST, Weakly similar to X1992 Keratin 6 III Haspiens with the Chronical Control of the Chronical Chronical Control of the Chronical Ch
2101	16400	S76779	c		
2102	24469 25545	S77858 S77900	n k,s		EST, Weakly similar to MOHU6N myosin alkall light chain 6, nonmuscle form [H. sapiens], myosin light chain, alkall, nonmuscle, myosin, light polypepide 6, alkall, smooth muscle and non-muscle
2103	21583	\$77900	k		EST, Weakly similar to MOHULP myosin regulatory light chain, placenta [H.sapiens], ESTs, Moderately similar to MOHULP myosin regulatory light chain, placental [H.sapiens], myosin regulatory light chain, myosin, light polypeptide, regulatory, non-sarcomeric (20kD)
2104	10260	S81497	s	lipase A, lysosomal acid, cholesterol esterase (Wolman disease), lysosomal acid lipase 1	
2105	3609	S82579	k		Homo sapiens, Similar to histamine N- methyltransferase, clone MGC:14500 IMAGE:4249496, mRNA, complete cds, expressed sequence AI788969, histamine N-methyltransferase
2106	111	U02506	u		
					[SST, Moderately similar to IGSLP, HUMAN GUANNE NUCLEOTICE-4INNING PROTEIN NUCLEOTICE-4INNING PROTEIN 18 TO PROTEIN NUCLEOTICE-4INNING PROTEIN 12 3 PR. ROWGELOS, 18 T. Weakly 18 12 3 PR. ROWGELOS, 18 T. Weakly 18 13 1 Weakly similar to A36988 activated protein kinase C receptor RACK1 - na! [IR novegicus], Homo sapiens cDNAC sapiens, Similar to guanne nucleotic binding protein (G protein), beta protein (G protein), beta protein (G protein)

		HOMOLOGUEA	MNOTATIONS	- in the same	Aug. Docket No. 43281-50330 Doc. No. 1793397
Sog. (D No.	Monther		Mortal Godo	Hemologous Clano Namo	tomorous we Cluster Namo
2109 2110	2010	U05675 U06230	b.x.bb		EST, Weakly similar to bata-fibrinoge: procursor [Haspinan], EST, Moderately similar to AF125176 1 angiopotelin-related protein-2 [M. mucukus], ESTs, Weakly similar it FIBB Not FIBRINOGEN BETA, CHAII PRECURSOR [R. norvegicus, expressed sequence Al256424, fobrinogen, B beta polypepilde
2112	1583	U07201	s,General	asparagine synthetase	
2113	627	U09229	h	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ESTa, Highly similar to CDP, HUMAN CCAAT DISPLACEMENT PROTEIN [H.sapiens], Hepatocyte nuclear factor 6. Human chromosome 17q21 mRNA clone 1046:1-1, KIAAD239 protein, cut (Drosophila)-like 1, cut (Drosophila)-like 1, cut (Drosophila)-like 1, cut (Drosophila)-like 2, one cut domala, family member 1
2114	809	U17035	General		
2115 2116	16675 25587	U17565 U20110	k,×,bb	mini chromosome maintenance deficient 6 (S. cerevisiae), minichromosome maintenence deficient (mis5, S. pombe) 6	mini chromosome maintenance deficient 6 (S. cerevisiae), minichromosome maintenance deficient (mis5, S. pombe) 6
2117		U20796	r		Mus musculus, Similar to nuclear receptor subfemily 1, group D, membel 1, clone MGC:6402 IMAGE:3585478, mRNA, complete cds, nuclear receptor subfamily 1, group D, member 2, thyroid hormone receptor sigha
2118		U21718	h,ea		
119	22196	U21719	h		
120		U25746 U27518	s a.h.n		DEAD (asportate-glutamete-alarine- sapartate) box polypepide S, ESTs, Moderately similar to A57514 RNA helicase HEL 17 - rat [R.novegicus], KIAA.0801 gene product, RIKEN cDNA 92510007K22 gene, RIKEN cDNA 4921506D17 gene, RIKEN cDNA 9130430L19 gene, RNA helicase, expressed sequence A1325430
					EST, Weakly similar to NPT1 RAT
122	1558 Ju	J28504	bb		RENAL SOCIUM-DEPENDENT PHOSPHATE HANSPORT PROTEIN I (IR. novelpical), ESTS, Weakly similar to NPT1 MOUSE RENAL SODIUM-DEPENDENT PHOSPHATE IN TRANSPORT PROTEIN INCOMENT PHOSPHATE INCOMENT PHOSPHATE INCOMENT PHOSPHATE (INCOMENT PHOSPHATE INCOMENT  INCOMENT PHOSPHATE INCOMENT PHOSPHATE INCOMENT PHOSPHATE PHOSPHATE INCOMENT PHOSPHATE INCOMENT PHOSPHATE

TABLE	OR HUUMAN	HOMOLOGUE!	NNOTATIONS	在 第一条	Ang. Docket No. 43221-603
One To	Y .	la-a-a-a-a		Vac	Doo, No. 17900
Sequid No.		GenBents Ace./ Ref. Seq. (D) No		Nomologous Conc Namo	Monachanaus Chuster Namo
2123	16193	U30831	ın		B/K protein, EST, Moderately simility S6895 B/K protein - rat [R.norvegicus]. Mus musculus B/K mRNA for B/K protein, complete od strain:BALB/c, RIKEN cDNA C030008B15 gene, synaptotagmin synaptotagmin 5
2124	17480	U31598	Z		
2125	18302	U33500 U34897	General		
2127	1394	U37099			Homo sapiens, clone MGC:4711 IMAGE:3534915, mRNA, complete cds, RAB23, member RAS concoger family, RAB3A, member RAS oncogene family, RAB3C, member RAS oncogene family, expressed sequence AI850885
2128	244	U38376			ESTS, Highly similar to FGDT, HUM PUTATIVE ROIOTA CGUANINE NUCLEOTIDE EXCHANGE FACTE (Haspiere, ISTS, Weakly similar (Haspiere), ESTS, Weakly similar (Haspiere), ESTS, Weakly similar (Haspiere), ESTS, Weakly similar (Haspiere), ESTS, Weakly similar (Haspiere), ESTS, Weakly Similar (Haspiere), ESTS, Weakly Similar to FGDT, HUMAN PUTATIVI RACTOR (PM. ANDRIN ENCLECTIO) EXCHANGE FACTOR (Haspiere), FGDT (Family, andrew 3, RIKEN DAYS) (Haspiere), FGDT (Family, andrew 3, RIKEN DAYS) (Haspiere), FGDT (Family, andrew 3, RIKEN DAYS) (Haspiere), FGDT (Family, andrew), ESTS, Weakly STR,
2129 ,	1623	U41164	jh.		ESTs, Weakly similar to AF167320 zinc finger protein ZFP113 [M.musculus], ESTs, Weakly similar Z135, HUMAN ZINC FINGER PROTEIN 13 [H.sapiens], ESTs, Weakly similar to ZF29 MOUSE ZIN FINGER PROTEIN 29 [M.musculus] RIKEN CDNA 2310040101 gene, expressed sequence Al835008
				complement component 4 (within H-2S), complement	EST, Weakly similar to complement
2130 .	15851	U42719	f,t,x,General	component 4B	component C4A [H.sapiens]
		U47315	s,z		
2132 2133		U53184 U57391	i.t,General		
2133		U62316	bb		expressed sequence AW146050, monocarboxylate transporter, solute carrier family 16 (monocarboxylic aci transporters), member 3, solute carri family 16 (monocarboxylic acid transporters), member 7
	725		100	A kinase (PRKA) anchor	
2137	2153	U75404	b,cc,General	A kinase (PRKA) anchor protein (gravin) 12	
2137	2153 4956			A kinase (PRKA) anchor protein (gravin) 12	

		HOMOLOGUEA			Anny, Docket No. 49224-503390 Doc. No. 1793337
seq.10 No	Monthler	Gon Florit (Acc)/ Roff, Seq. ID No.	Model Gode	Memologous Gono Namo	Homologous Gluster Name
2142	977	U89744			KIAA1683 protein, KIAA1802 protein, expressed sequence AA407555, lymphocyte antigen 64, polymerase (RNA) II (DNA directed) polypeptide A (220KD), suppressor of Ty (S.cerevisiae) 5 homolog
2143	23282	U90725	h		high density lipoprotein binding protein
2143	22005	U96490	m	-	](vigilin)
2146	819	X02284	ij.z	-	<del> </del>
				aldolase 2, B isoform, aldolase B, fructose-	
2147	818 20818	X02291	e.j.z	bisphosphate	
2148	16401	X02904 X04979	n,q c	ļ	<del></del>
2149	10401	AU4979	-	pyruvate kinase liver and	
2150	20513	X05684	o,r	red blood cell, pyruvate kinase, liver and RBC	
2151	25084	X06769	cc		<del></del>
2152	672	X13722	h		
2153	25675	X14181	n		
2153	20810	X14181 :	n,q,w		RLYX, HUMAN 60S RIGOSOMAL PROTEIN L184 (H.sapiens), EST, Weakly similar to R.1X, HUMAN 60S RIGOSOMAL PROTEIN L184 GY3753 ricosomal protein L18a, cytosotic [H.sapiens], ESTa, Highly similar to R.1X, HUMAN 60S RIGOSOMAL PROTEIN L18A (H.sapiens), RIKEN cONA 251001906 (gene, ribosomal protein L18a
2154 2155	18541 25679	X14671 X15013	y		ESTs. Highly similar to RL25_HUMAN GOS RIGOSOMAL PROTEIN L26 IH sepiensl, ESTs. Highly similer to S3713 ribosomal protein L26, cytosolic [H.sapiens], ESTs, Weakly similar to 805 RIBOSOMAL PROTEIN L26 [R.noveojcus], ribosomal protein L26, ribosomel protein L26 pseudogene 1
100	23018	X 130 13	4		EST, Weakly similar to 60S
					RIBOSOMAL PROTEIN LTA [Mmusculus] ESTs, Highly similar to RSHUTA ribosomal protein LTe, cytosolic [H.aspiene], Homo sapienis rpLTa pseudogene, clone 3a, Human ONA sequence from chore RP1- 189G13 on chromosome 20. Contains a RPLTA (605 hisosomel protein LTA) (SURF3) pseudogene, an RPS4 (40S ribosomal protein S4) pseudogene, ESTs, STSs and GSSs, RIKEN cDM- 6232404H19 gene, ribosomal protein
2155	19244	X15013	c,q,w		L7a
2156	15626	x17665	a		EST Al317031, EST, Weakly similar to R3HU16 ribosomal protein S16, cytosolic [H.sapiens], expressed sequence AA420385, ribosomal protein S16
130	15020	A11003	•	phospholipase A2, group	Aprotein 316
3					
2157	1893	X51529		IIA (platelets, synovial fluid)	

TABLE	g HUMAN	HOMOROGUEN	NNOTABLIONS	W 4 1 2 1 1 1 2 2	Atty, Docket No. 44921-50890
100	10	A STATE OF THE PARTY OF THE PAR			Dog. No. 1793897
≎ • <b>□</b>		tel and ID No.	Medal Gode	Homologous Cono	Temple of Chalar Menno
2158	10819	X51536	aa,bb		EST, Moderately similar to R3RT3 nbosomal protein S3 - rat [Rnonvegicus], EST, Weakly similar t R3RT3 ribosomal protein S3 - rat [Rnonvegicus], hypothetical protein FLJ23059, ribosomal protein S3
					EST. Weakly similar to 60S RIBOSOMAL PROTEIN 19 [R. norvegicus]. EST, Weakly similar to \$42106 fibosomal protein 1.9 homotog [H. sapiens]. ESTs, Highly similar to \$42106 fibosomal protein 1.9 homotog H. sapiens]. ESTs, Moderately similar to 60S RIBOSOMAL PROTEIN 1.9 [R. norvegicus]. RIKEN cDNA 4930401811 gene, ribosomal protein
2159	18250	X51706	a,q,w	ribosomal protein L9	L9
2150	20872	X51707	a	ribosomal protein S19	EST, Moderately similar to 40S RIBOSOMAL PROTEIN S19 [R.norvegicus], EST, Weakly similar to RS19_HUMAN 40S RIBOSOMAL PROTEIN S19 [H.saplens], ribosomal protein S19
					myxovirus (influenza virus) resistance 1, myxovirus (influenza) resistance 1, homolog of murine (interferon-
2161	516	X52711	С		inducible protein p78)
2162	25689	X52815 X53378	g w		ESTs, Highly similar to RS13, HUMAN 40S RIBOSOMAL PROTEIN S13 [H.sapiens], ESTs, Moderately similar to RS13, HUMAN 40S RIBOSOMAL PROTEIN S13,[H.sapiens]
2164	18606 1463	X53504 X54467	General		EST, Moderately similar to S35531 ribosomal protein L12, cytosolic [H-sapiens], EST, Weakly similar to 605 RIBOSOMAL PROTEIN L12 [R.norvegicus], hypothetical protein, ribosomal protein L12
2165	1463	X54467	d,u,General		EST, Weakly similar to 60S ACIDIC
	·				FIREDSOMAL PROTEIN P2 [Ronvagious]. Est, Tweatly similar for RRH-PIZ addic ribosomal protein P2, RRH-PIZ addic ribosomal protein P2, RRH-PIZ addic ribosomal protein P2, RRH-PIZ addic ribosomal protein P2, RRH-PIZ R

Septime	TWRITES	S IRIUMAN	HOMOTOGÓE Y	NNOWWILDING	The state of the s	
protein Namosop TAN-1 - precursor (H. sapienei, EST, Weakly similar to A40943 rotch protein hornolog TAN precursor (H. sapienei, EST, Weakly similar to A40943 rotch protein hornolog TAN precursor (H. sapienei, EST, Weakly similar to A40943 rotch protein hornolog TAN precursor (H. sapienei, EST, Weakly similar to A40943 rotch protein hornolog TAN precursor (H. sapienei, Protein Sapienei mRNA, CDNA DEZ-276/SO2121) partial cist, Note (H. protein) associated), Notch gene hornolog 1 (transtociation, bromolog 2, Notch (Notch gene hornolog 1, Notch (Prosophila) hornolog 3, Notch (Notch gene hornolog 1, Notch gene hornolog 1, (Prosophila) hornolog 3, Notch (Notch gene hornolog 1, (Prosophila) hornolog 1, (Prosophila) hornolog 1, (Prosophila) hornolog 1, (Prosophila) hornolog 1, (Prosophila) hornolog 1, (Prosophila) hornolog 1, (Prosophila) hornolog 1, (Prosophila) hornolog 1, (Prosophila						Bally the other programmer of the
15106   157529   15702   157	2167	10344	X57405	į,m	homolog 1 (translocation- associated), Notch gene	[Haspiens], EST, Weakly similar to Ad043 notch protein homolog TAN-1 precursor [Haspiens], ESTs, Weakly similar to NEUROCENE LOCUS similar to NEUROCENE LOCUS similar to NEUROCENE LOCUS PRECURSOR (M. musculas), Homo sapiens miRNA, cDNA DIKE2/PS1602121; (prom clone DKF2/PS1602121); partial cst, Notch (Drosophia) homolog 1 (iranslocation-sacciates). Netró (Drosophia) homolog 3. Notch 3 notch gene homolog 3. Notch 3 notch gene homolog 3. Notch 3 notch gene
15105   X57529   Q.A.Q.   Protein S16   S17529   Q.B.D.   Protein S16   S17529   Q.B.D.   Protein S16   S17529   Q.B.D.   Protein S16   S17529   Q.B.D.   Protein S17529   Q						ribosomal protein S18, cytosolic [H.sapiens], ESTs, Highly similar to S30393 ribosomal protein S18,
EST, Moderately similar to 650   RRIOSOMAL PROTEIN L23   RROOF   RRO				p,n,g		
RIBOSOMAL PROTEIN L29   Reprove process   Repr	2169	5667	X58200	q,bb	ribosomal protein L23	FOT HE desired at 17 to 200
RELT7 - HUMAN 60S RIBOSOMAL   PROTEIN LT   Pl sapiens   SETO, SETO	2169	18611	x58200	a,v	ribosomal protein L29	[Rnoregious], EST, Wesley similar to SST944 hoseaning protein 1.29, oncocie (H. sapiens), ESTs, Highly similar to SSST94 hoseaning protein control of the sapiens of the sapiens with the sapiens of the sapiens of the control of the sapiens of the sapiens with the sapiens of the sapiens of the PAOTEN L2 (Bh. macculas), Human DNA sequence from clone R44– SSS412 on chromome (\$9.12.31.3). Contains a pseudogene similar to 50S RR-L29 (ribocannic protein 1.29) (and surface inspaint birding protein rilP), RR-L29 (ribocannic protein 1.29), (RAM-MAGS), a contribut, (RAM-MAGS),
CST, Moderately similar to 405						RL17. HUMAN 60S RIBOSOMAL PROTEIN L17 [H.sapiens], EST, Weakly similar to RL17 RAT 60S RIBOSOMAL PROTEIN L17 [R.norvegicus], EST, Weakly similar to RL17. HUMAN 60S RIBOSOMAL PROTEIN L17 (H.sapiens), ESTS, Weakly similar to RSHU22 ribosomal
2171 25702 X58465 w rbosomal protein S5 protein S5 EST, Moderately similar to 40S RIBO-SCMAL PROTEIN S5 RROCEONS, Westly similar	2170	17175	X58389	w		EST, Moderately similar to 40S RIBOSOMAL PROTEIN S5 [R.norvegicus], ESTs, Weakly similar to S55916 ribosomal protein S5,
cytosolic [H.sapiens], ribosomal	2171	25702	X58465	w	ribosomal protein S5	protein S5 EST, Moderately similar to 40S RIBOSOMAL PROTEIN S5 [R.norvegicus], ESTs, Weakly similar to S55916 ribosomal protein S5,
2171 10109 X58465 c.q ribosomal protein S5 protein S5					ribosomal protein S5	

				-365-	
TABU	E8: HUMA	NEWSONOMORIE	NNOVATIONS	7 /	Atty. Dookst No. 44921-5980.
80g. ([ No.	e dimensi	Gon Berrik Accul 7 Rolf, Geog. ID No	Medal Code		
				creatine kinase, mitochondrial 1 (ubiquitous), creatine kinase, mitochondrial 1.	
2173	25709	X59737	lu	ubiquitous	
2174	18354	X59859	General	decorin	ESTs, Moderately similar to dJ63G5 [H.sapiens], RIKEN cDNA 1700034K16 gene, RIKEN cDNA 5530600M07 gene, decorin ESTs, Moderately similar to dJ63G5
2174	18355	X59859		decorin	[H.sapiens], RIKEN cDNA 1700034K16 gene, RIKEN cDNA 5530600M07 gene, decorin
2175	21657	X61381	General		EST1, Moderalisti similar in \$3.17182 interferon-induced protein 1-80. Https://doi.org/10.1718
2176	25718	X62145	bb,General		Internation inducation protein to
2176	15875	X62145 ,	a,q,v		EST, Highly similar to 60S RIBOSOMAL PROTEIN LG RIBOSOMAL PROTEIN LG RIBOSOMAL PROTEIN LG RIBOSOMAL PROTEIN LG LG RENORMAL PROTEIN LG LG RENORMAL PROTEIN LG LG RENORMAL PROTEIN LG RENORMAL PROTEIN LG RENORMAL PROTEIN LG RENORMAL PROTEIN LG RENORMAL PROTEIN LG RENORMAL PROTEIN LG RENORMAL PROTEIN LG RENORMAL PROTEIN LG RENORMAL SERIOSOMAL PROTEIN LG RENORMAL SERIOSOMAL PROTEIN LG RENORMAL PROTEIN LG RENORMAL PROTEIN LG RENORMAL PROTEIN LG RENORMAL PROTEIN LG RENORMAL RENORMAL LG RENORMAL RENORMAL LG RENORM
177	13646		bb .		ERBOSOMAL PROTEIN L3  (R.DOVENDER, SET, Weakly similar to IASSO 17 Roosenal protein L3  (H.sapiera), EST, Moderately, similar to 60 S RIBOSOMAL PROTEIN L3  (F.Ronvegleus), ESTs, Moderately similar to 184501 ribosomal protein L3  (H.sapiera), ESTs, Weakly similar to 184501 ribosomal protein L3  (H.sapiera), ESTs, Weakly similar to RL3 MOUSE 60 S RIBOSOMAL  PROTEIN L3 (M.musokular), RIKEN  CDMA 1110057H16 gene, ribosomal protein L3-like
	13,5,				
179	16012		m,s,z		high mobility group AT-hook 1, high- mobility group (nonhistone chromosomal) protein isoforms I and Y
180			CC .		
			cc.General		

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C. Cristian	100	POTO/OGALEM		A Committee of the Comm	Dos. No. 179399
399, ID No.	ideniffer	SonBook Accel Ref. Seq. ID No.	Model Gode	Homologous Geno Xemo	Homologara Cheter Nama
2182	20844	X65228	n,w		EST, Highly similar to 60S RIBOSOMAL PROTEIN 123A (R. norvegicus), ESTs, Highly similar RL2B_HUMAN 60S RIBOSOMAL PROTEIN 123A [H.sapiens], ribosorr protein 1.23a
2183 2184	20879 25736	X65296 X68782	j.y		EST, Weakly similar to JCS408 carboxylesterase [H.saplens], ESTs, Moderately similar to ES22 MOUSE UVER CARBOXYLESTERASE 22 PRECURSOR [M. musculus], T. complex expressed gene 5, carboxylesterase 1, carboxylesterase 1 (monocyle/macrophage serine esterase 1), carboxylesterase 3, carboxylesterase 3, carboxylesterase 3, carboxylesterase 3, carboxylesterase 3 (prain)
2 (04	20700	X007.62		collagen, type III, alpha 1 (Ehlers-Danics syndrome type IV, autosame	SST, Highly semilar to CAST, FURDAY, COLLAGEN, APPA (101) CRAM PRE-CURSOR [H. sapiena,] EST, Moderately similar to CAST, HUMAN COLLAGEN ALPHA (1010) CHAIN PRECURSOR [H. sapiena,] EST, Weathy similar to CGHUTZ. Collagen alpha (1011) chain procursor milar to CGHUTZ. Collagen alpha (1011) chain procursor milar to CHAID, and the CHAID (1011) chain procursor milar to CHAID, and the CHAID (1011) chain procursor milar to CHAID, and the CHAID (1011) chain procursor milar to CHAID, and the CHAID (1011) chain procursor milar to CHAID, and the CHAID (1011) chain procursor milar to CHAID, and the CHAID (1011) chain procursor milar to CHAID, and the CHAID (1011) chain procursor milar to CHAID (1011) chain procursor mila
2185	16426	X70369	С	dominant), procollagen, type III, alpha 1	collagenous structure, procollagen, type III, alpha 1
2186	16300	×70706	u		ESTs, Highly similar to A34789 T- plastin [H.sapiens], ESTs, Highly similar to PLSI HUMAN I-PLASTIN [H.sapiens], expressed sequence AJ115446, expressed sequence Al427122, expressed sequence AL024105, plastin 2, L
· 187	24232	X7 <b>52</b> 07	c		B-cell CLL/lymphome 1, EST, Moderately similar to CGD1 RAT G1/S SPECIFIC CYCLIN D1 [R.norvegicus] (ESTs, Weakly similar to 1708356A cyclin PRAD1 [H.sepiens], cyclin D1, cyclin D1 (PRAD1: parathyroid adenomatosis 1), expressed sequence, A1327039
188	16272	X76456	n,p		ESTs, Highty similar to alpha-albumin protein [M.musculus], Mus musculus mRNA for alpha-albumin protein, afamin
			u		1
190	23302	×78949			¡ESTs, Weakly similar to DAHUA1 procollagen-princing doxygenase [H.sapiens], expressed sequence ARSS947, expressed sequence C76437, procollagen-proline, 2-acquitarise 4-dioxygenase (proline 4-hydroxylase), alpha 1 polypeptide, procollagen-proline, 2-acquitarise 4-dioxygenase (proline, 2-acquitarise 4-dioxygenase), alpha polypeptide 1, procollagen-proline, 2-acquitarise 4-dioxygenase (proline, 4-acquitarise 4-dioxygenase (proline 4-hydroxylase), alpha polypeptide 1, procollagenase (proline 4-hydroxylase), alpha polypeptide 1

UMBUES	ee Hijinan	HEMOLOGUEA	NNOT - TONS	4 - 1	Ally, Deakel No. 43221-503317 Dea, No. 1793317
309 (D No.	Menutifier	GonBank Ace./ Ref. Soq. ID No.	Morrel Godo	Hemologove Gene Name	
2191	25747	X81448	General		1
2192	24115	X81449	10		EST, Weakly similar to KERATIN, TYPE I CYTOSKIELETAL 19 M. muscuks), ESTs, Moderately similar to NCJ, HUMAN KERATIN, TYPE I CYTOSKELETAL 10 [H. saplens], ESTs, Weakly similar to S04033 keralin 17, type I, cytoskelet [H. saplens], Homo saplens mRdic, keralin 19, perial cods, solales/K19-14 keralin 19, keralin complex 1, seldic, gene 19, type I intermediate filament cytokeratin
2193	25754	X89696	19		
2194	25097	X90642	y.z		
2195	12978	X96437	cc,General		immediate early response 3
2197 2198	4594 25777	Y07704 Y08355	c		
2199 .	15986 , 20890	Y05945 Y13275	bb,General		EST, Washly similar to CON2 MOUSO ORGANIC CATRONAENTINE TRANSPORTER 2 JM musculus). ESTS, 16jby similar to CON2 JMUNA ORGANIC CATRONAENTINE TRANSPORTER 2 JM musculus). ESTS, 16jby similar to CON2 JMUNA ORGANIC CATRONAENTINE TWANSPORTER 2 In ageinet, EST Weathy similar to JEGGA 6 Jhip-affinity organities transporter, mention 1, acute carrier (amity 22 corganic cation transporter), member 4, solute carrier family 22 (organic cation transporter), member 5, solute carrier family 22 (organic cation transporter), member 3, solute carrier family 22 (organic cation transporter), member 3 ESTS, Weakly similar to MOUSE 1, acute 1, acut
					ESTs, Moderately similar to dJ63G5.3
		Z12298 Z49761	t k	decorin	[H.sapiens], RIKÉN cDNA 1700034K16 gene, RIKEN cDNA 5530600M07 gene, decorin
					ESTs, Highly similar to T17342 hypothetical protein DKFZp586K1924.1 [H.sapiens], ESTs Moderately similar to T17342
			r,v		hypothetical protein DKFZp586K1924.1 [H.sapiens]
206	2459	AA964755	r,v cc		

Sec. St.		HOMOLOGUEA			Dog, No. 1798897
800, ID No.	ide tiller	CorBook Accul Ref. Sec. ID No.	Model Gode (	Momologous Gene Nemo	homologo Guster Namo
2209	439	Z22607	w	bone morphogenetic	bone morphogenetic protein 15, bone morphogenetic protein 4, endometrial bleeding associated factor, endometrial bleeding associated factor, endometrial bleeding associated factor, (refr-right determination, factor A; transforming growth factor beta superfamily), growth differentiation factor 5 (prowth differentiation factor 5 hypothetical protein ELJ10314 ESTS, Highly similar to T17342
2210	8665	Ai071965	v		hypothetical protein DKFZp586K1924.1 [H.sapiens], ESTs Moderately similar to T17342 hypothetical protein DKFZp586K1924.1 [H.sapiens]
2211	155	U32681	t	crp-ductin, deleted in	CD163 antigen, ESTs, Highly similar to 138005 M130 antigen precursor, pilenna, KIAA1622 protein, apoptosis inhibitory 6, cpr-ductin, deteted in malignant brain tumors 1, lectin, galactoside-binding, soluble, 3 binding protein, macrophage scavenger receptor 2, pepticylyrotisomerase C-associated protein
2212	19252	AA892041		selenium glutathione	ESTs, Moderately similar to AOP2_HUMAN ANTIOXIDANT PROTEIN 2 [H.sapiens], anti-oxidant protein 2 (non-selenium glutathione peroxidase, acidic calcium- independent phospholipase A2), peroxiradoxin 5
2213	15582	AI232320	0	- DOTOKII GUGANIT G	I .
2214	17541	M26125	0	epoxide hydrolase 1, microsomal, epoxide hydrolase 1, microsomal (xenobiotic)	EST, Moderately similar to HYEP, HUMAN EPOXIDE HYPROLASE 1 [H.saplens], ESTs, Highly similar to HYEP, HUMAN EPOXIDE HYDROLASE 1 [H.saplens] epoxide hydrolase 1, microsomal, epoxide hydrolase 1, microsomal (venobloic)
2215	18609	M30689	i	I	
2216	6262	Al177125	g		
2217	23859	AI072161	1		
2218	21011	H32189	e	glutathione S-transferase M2 (muscle), glutathione S- transferase, mu 2	ESTs, Moderately similar to GLUTATHIONE S-TRANSFERASE YB1 [R.norvegicus], glutathione S- transferase M1, glutathione S- transferase, mu 1
2220	2572	AI177143	b		
2221	25419	M22922	a	1	

Table 4: Gode Key	Alayr Deems	Doc. No. 1793337.1
of the contraction		
GENERAL TOXICITY		General
ACYCLOVIR	124, 168	a
ACYCLOVIR	16	b
ADR	120, 168	c
AY	360	d
BEA	6, 24	e
CAPTOPRIL	336	ıf
CARBOPLATIN	6	19
CEPHALORIDINE	6, 24	jh .
CIDOFOVIR	120	11
CISPANcombined	6, 24	j
CISPLATIN	168	k
CISPLATIN	6, 24	7
CISPLATIN	6, 24, 168	m
CITRININ	6, 24	n
COLCHICINE	6, 24, 48	o
CYCLOPHOSPHAMIDE	6	i p
DIFLUNISAL	24	jq
HYDRALAZINE	16	ir.
IFOSFAMIDE	6, 24, 48, 144	S
INDOMETHACIN	48, 72	t
LITHIUMCHLORIDE	120	u
MERCURICCHLORIDE	3, 6, 24	V
PAMIDRONATE	24	w
PAN	168	X
PAN	6, 24	ły
PAN	6, 24, 168	Z
SEMUSTINE	168	Jaa
SULFADIAZINE	24	bb
SULFADIAZINE	3,6	icc

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TABLE S	CENERAL		Ally, Do	eket No. 4 Doc. 1	4921-5039VV No. 1798327.
Identifier	NonfloxMean	NonfroxSD	ToxMean	ToxSD	LDAScore
12979	326.05	198.48	1729.13	345.15	183,46
23314	-7.57	63.50	480.54	1528.59	183.43
5461	161.65	48.19	368.42	210.09	82.70
9583	40.60	17.67	158.01	127.01	82.56
16982	59.51	36.53	506.74	577.57	81.34
1809	5.28	13.85	191.53	265.23	81.21
19184	59.98	26.06	191.02	128.18	81.04
24200	382.07	78.91	618.97	199.18	80.18
15003	13.42	14.74	154.63	217.73	79.83
2629	18.92	8.93	58.17	43.50	79.72
22321	82.69	25.99	192.94	130.47	79.58
15301	20.84	20.65	124.72	132.03	79.47
15032	280.18	50.93	183.93	78.32	79.33
7489	89.81	28.30	47.02	25.94	79.28
2242	2431.04	453.24	1658.86	711.96	79.26
3050	77.80	26.29	166.37	91.49	79.22
22681	170.38	56.88	497.37	377.15	79.20
24042	4.31	9.28	112.52	198.98	79.06
14425	191.57	51.38	315.84	1117.32	79.05
15300	104.10	41.29	305.26	261.16	79.01
23651	487.82	171.51	1473.41	1227.36	78.44
15964	1274.63	262.79	824.24	343.96	78.27
16312	44.81	17.42	107.40	60.46	78.21
16168	305.21	53.33	588.32	425.68	78.12
5384	28.68	24.27	102.33	70.63	78.08
12978	92.29	28.22	178.30	79.32	77.90
21654	332.77	53.62	518.29	196.63	77.78
3874	934.64	159.07	672.84	1188.60	77.60
3049	176.71	56.69	334.05	163.05	77.39
16314	33.02	22.70	103.37	64.81	77.39
23299	345.71	73.26	514.49	166.24	77.35
9166	13.09	10.08	40.42	28.18	77.33
14763	1.59	39.67	228.03	268.46	77.30
4479		62.59	233.57	86.27	77.27
15928	142.69	34.11	244.10	90.89	77.08
3941	229.39	59.58	325.62	88.12	76.99
28	540.29	128.18	342.30	188.50	76.94
14929	687.79	150.66	1358.82	807.54	76.87
22885		342.00	1987.11	703.59	76.84
	15.12	10.37	52.20		76.68
			333.27		76.68
21239	98.57	31.29	190.62		76.57
2555	83.76	25.31	159.42		76.51
	558.01	156.42	953.70		76.38
22569	701.48	148.25	468.05		76.33
15299	73.40		164.49		76.17
			53.19		76.12
7299	141.75		363.99		75.86
			290.61		75.81
			514.43		75.65
			118.06		75.63
			215.89		75.55
					75.53
					75.53
					75.50
-1000	1.00	17.70	00.00	37.84	75.44

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TABLE 5:	CENERAL .	Marian III. Maria	Anny, Dox	eksek Mo. 4 Doc. 1	4921-50391//0 No. 1793397.1
ldentifier	NonToxWean	NonToxSD	ToxMean	ToxSD	LDAScore
7540	1135.61	39.51	269.18	1167.73	175.42
3121	11387.78	270.45	1970.56	410.36	75.23
17325	37.68	26.79	190.12	198.72	75.23
4049	8.16	14.26	100.05	143.11	75.21
24219	294.84	62.68	415.01	115.05	75.14
7101	266.61	65.47	11024.56	1594.33	75.14
21462	246.43	47.45	320.88	67.53	75.11
21458	203.89	61.93	345.78	139.58	75.01
1460	178.45	37.93	302.50	171.15	74.92
23957	57.89	29.03	120.87	165.67	74.89
12921	92.69	31.09	174.99	86.55	74.88
24237	46.61	22.12	105.68	71.47	174.84
20830	482.35	118.55	717.12	282.77	74.80
14185	181.85	52.63	307.94	156.98	74.74
3091	821.34	154.51	1616.81	215.94	74.73
6046	221.77	64.88	141.08	71.40	74.73
10818	509.63	159.26	301.00	207.18	74.63
18906	270.92	73.69	171.86	79.69	74.60
17361	160.53	54.00	92.22	55.73	74.60
574	297.07	48.04	543.78	340.56	74.58
1529	305.18	51.69	224.24	69.41	74.56
20161	30.38	21.73	80.33	56.50	74.54
22152	-0.67	16.93	51.48	64.42	74.54
21391	183.11	55.68	391.43	1249.63	74.34
20056	319.93	46.22	248.41	81.57	74.34
5711	402.83	114.80	268.76	100.84	74.34
16169	126.24	66.19	419.86	462.11	74.32
7196	160.17	37.22	297.55	159.08	74.29
13634	754.99	133.63	1123.83	475.68	74.29
10659	111.21	38.66	239.07	166.99	74.28
15089	162.94	57.42	271.19	109.36	74.26
2628	8.82	14.55	37.93	39.15	74.22
	7.84	37.91	80.00	74.26	74.20
	1225.79	235.19	927.05	284.85	74.20
	64.57	22.56	114.45	54.63	74.04
	284.47	66.73	189.90	103.16	73.97
	79.92	58.73	367.62	435.18	73.94
	226.12		315.88	93.78	73.94
	643.39		476.67	160.12	73.88
	1354.29	374.19	830.60	415.24	73.82
		200.48	773.76	246.63	73.81
		117.87	724.70	226.98	73.80
			336.07	113.36	73.79
			2040.05	590.49	73.79
			105.91	87.78	73.79
		79.66	468.70		73.78
			335.31		73.77
			363.77	115.07	73.74
					73.71
					73.69
					73.66
		45.71	298.01		73.59
	154.16				73.59
					73.55
0015	215.25	41.54			73.54

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TABLE SE	CENERAL		Ally, Doo	kat No. 4	
	-			Doc. [	No. 17939
	MonToxMean	NonToxSD	ToxMean*	Tonso	LDASco
20458	377.19	83.99	283.38	95.28	73.52
23869	24.11	23.82	1132.98	190.30	73.49
20848	474.69	80.77	708.43	261.80	173.46
9067	645.45	126.00	841.67	201.55	73.45
923	10.66	7.41	32.76	27.77	73.40
4291	317.92	187.25	202.30	199.83	73.38
18529	184.43	47.69	306.78	139.66	173.35
22626	66.24	25.65	191.03	1161.08	73.32
3823	488.87	101.91	709.19	233.23	73.30
15663	179.56	40.22	269.94	197.24	73.29
22929	927.47	283.23	548.56	310.91	73.27
373	20.21	24.84	107.75	123.23	73.25
4952	97.10	31.18	160.25	66.14	73.23
2905	221.02	70.67	379.00	165.35	73.23
7127	301.01	84.77	195.82	87.14	73.22
20035	157.82	53.67	318.27	196.89	73.21
	40.56	38.11	216.48	294.45	73.19
	46.55	22.43	125.28	104.55	73.19
	268.35	42.34	201.54	69.48	73.14
	1272.79	264.85	879.10	411.90	73.12
	249.79	41.36	1192.96	58.86	73.09
	85.95	40.73	190.24	133.78	73.07
	1699.33	315.35	1236.46	390.84	73.06
	119.96	26.12	252.22	220.20	73.06
	365.33	62.56	285.83	76.45	73.05
	208.57	63.43	132.86	65.90	73.05
	364.98	75.98	659.63	429.84	
	54.82		118.04	81.85	73.01 72.90
	545.81		349.07	201.06	72.90
	6.71		209.28	375.95	72.86
		20.47	103.84		
			76.61	48.93	72.85
				32.45	72.83
				84.17	72.83
				37.90	72.82
				207.24	72.80
				69.08	72.78
				240.27	72.77
					72.75
					72.75
					72.73
					72.73
					72.71
					72.67
					72.53
1422					72.53
					72.53
		62.24			72.51
	27.74				72.48
					72.47
				267.49	72.38
		27.40	117.95		72.32
	19.38	21.99			72.32
					72.27
21318	11.50	23.94			72.27
					72.24

relitimetal	NonToxMean	ManTaren	TromMoore	ReviGin a	L'D.A.S.gone
1727	30.19	25.05	1113.76	1121.46	72.19
23202	169.96	36.51	126.76	36.17	172.16
22248	216.64	78.55	393.59	188.26	72.15
22612	487.17	110.76	359.48	126.14	72.14
17734	106.27	34.17	214.91	182.70	72.12
19235	1112.95	271.69	810.00	308.94	72.06
13618	96.22	26.36	137.92	45.79	172.04
19525	23.64	12.50	46.38	27.18	72.03
4584	76.41	22.50	109.66	36.31	71.98
22197	112.68	34.33	178.88	75.61	71.98
24762	1064.07	310.38	755.53	273.04	71.97
10985	1189.01	218.09	885.13	290.39	71.96
3145	466.94	133.08	330.71	144.92	71.93
20828	278.75	83.71	482.02	272.83	71.89
2395	172.58	47.67	175.81	100.28	71.86
13609	252.08	52.43	186.04	64.47	71.86
21339	29.51	15.60	53.28	32.70	71.78
3079	27.52	22.01	167.24	49.93	71.78
16321	219.91	42.72	273.17	55.96	71.77
4944	100.32	33.19	177.16	86.89	71.77
24568	162.64	51.57	105.85	46.68	71.75
3875	539.59	120.20	389.50	146.06	71.75
6382	117.04	33.24	171.65	55.00	71.73
3959	329.28	86.36	451.00	151.79	71.73
8795	14.06	10.71	26.30	13.30	71.72
17477	102.32	22.97	156.34	68.17	71.71
7700	74.32	20.26	138.95	92.87	71.68
17550	1380.51	319.12	1028.40	363.64	71.63
410	1155.16	215.31	918.14		71.63
17682	706.42	143.23	505.72		71.63
	20.54	16.83	45.41		71.63
	288.80	58.15	408.62		71.59
16521	266.79	60.39	378.60		71.59
13610	371.99	53.12	283.18		71.55
22554	565.54	122.08	428.04		71.49
		35.83	-5.43		71.47
15588	-4.65	25.14	33.98		71.42
5601	1014.34	210.01	731.23		71.42
780			32.19		71.38
			44.91		71.38
5039			206.99		71.38
			307.50		71.38
4970			161.84		71.32
			1103.53		71.31
197			296.88		71.28
			22.20		71.27
25090	74.42		128.49		71.24
8564	225.23	44.60	181.56		71.23
			357.51		71.20
			331.16	186.75	71.18
			172.36	143.80	71.18
			234.59		71.17
			1165.90		71.12
			210.76		71.11
			1089.58		71.09

TABLE 5:	CENERAL		AMy. Dog		1921-5039W0 No. 1793397.
ldentifier	NonToxMean	NonTexSD	ToxMean	The second second	
5494	62.28	23.39	104.89	53.79	71.08
18269	729.55	1160.51	578.31	143.90	71.07
14996	459.09	95.27	332.24	132.64	71.03
24617	27.48	28.57	-0.27	26.14	71.02
23195	323.13	74.62	242.16	107.55	71.01
22656	113.29	44.19	184.20	80.34	70.99
8728	114.64	32.58	163.70	57.48	70.99
14664	56.90	24.89	82.06	31.36	70.98
22698	286.73	,90.38	147.82	160.71	70.97
24053	35.17	15.83	56.32	29.72	70.97
6796	190.54	59.10	259.72	68.76	70.97
5474 22820	783.73	210.50	556.59	211.13	70.96
	199.69	49.08	296.30	123.01	70.89
21796	666.75	117.72	898.08	374.38	70.88
25747 5443	41.52	18.23	88.80	66.31	70.85
12965	12.36	13.98	34.29	27.55	70.84
	104.50	38.53	152.54	54.48	70.80
12332	602.96	147.89	428.95	204.34	70.77
3773 5990	20.24	15.61	47.49	38.34	70.75
18302	310.53 132.49	65.78	375.84	76.70	70.73
23964	9.67	67.39	63.56	100.58	70.70
9468	65.20	12.94 31.76	24.20 38.22	18.71	70.68
16631	14.50	12.00		29.36	70.68
21653	224.19	41.69	57.40 303.28	80.51	70.66
9097	272.42	76.73	194.27	104.55 78.59	70.63
11259	79.73	54.95	259.20	287.87	70.61 70.60
1081	515.94	100.86	394.77	126.28	70.58
18360	214.50	54.30	161.55	58.13	70.58
4789	35.91	18.80	60.76	25.85	70.56
1798	346.08	90.64	258.66	95.94	70.56
25089	69.92	34.04	119.62	57.66	70.55
24234	170.64	48.79	257.81	150.22	70.55
23270	197.31		264.06	80.46	70.54
3339	457.12		336.46	156.58	70.52
4119	104.13	29.50	142.73	41.65	70.50
18581	239.39			102.81	70.48
3188	429.99		311.19		70.46
17950	60.85		84.23		70.45
11967	1829.61	479.72	1293.20		70.45
252	13.79		24.05		70.44
22928	235.05				70.38
6684	483.85				70.37
1463	562.00	123.95	959.70		70.36
3495	174.57	44.41	233.96		70.36
	94.72	37.50			70.35
					70.34
			69.31	26.59	70.32
			110.73	35.05	70.32
			109.53		70.27
				469.53	70.26
			358.54		70.26
		35.75	138.74	52.86	70.23
	159.96	46.53	108.93	51.49	70.19
481	36.03	51.29	102.88		70.19

TABLE 5:	General		Atty. Docket No. 44921-5039W Doc. No. 1793397		
ldentifer	NonToxMean	NonToxS0	ToxMean	ToxSD:	LDAScore
3430	414.54	95.45	587.65	251.37	170.17
26335	940.03	330.95	625.84	337.88	70.16
352	77.57	33.06	132.92	75.36	70.14
23044	213.44	34.48	253.69	53.74	70.13
17161	1069.69	220.67	1639.92	740.76	70.11
14352	179.82	26.18	211.25	38.48	70.10
21993	71.93	19.33	98.79	30.29	170.09
16756	165.09	40.66	231.09	68.53	70.09
7537	240.15	64.50	185.74	68.65	70.09
15986 ,	336.87	70.00	240.73	102.05	70.07
17256	428.03	84.39	329.02	149.16	70.04
18151	1182.11	241.37	915.26	244.04	70.03
18354	372.44	129.56	548.59	224.71	70.03
19152	155.28	37.87	219.58	85,40	170.01
8314	44.66	24.23	401.40	1027.58	70.01
13222	132.87	25.87	162.46	38.58	69.99
3808	157.93	29.12	224.59	103.04	69.99
25705	432.30	81.33	560.17	181.12	69.98
4360	341.32	51.71	279.62	90.37	69.97
15904	48.14	15.72	70.45	28.37	69.96
3733	307.48	109.96	502.42	242.20	69.95
12349	248.84	51.51	206.79	57.13	69.94
	293.57	52.57	404.95	147.79	69.94
16394	529.95	207.80	998.31	642.96	69.92
1340	194.50	26.68	172.82	51.16	69.92
13393	68.65	39.60	120.92	67.73	69.91
	115.29	35.39	165.90	63.73	69.91
	-15.71	27.91	21.66	45.38	69.91
	513.15	100.54	694.75	220.14	69.89
	324.56	59.40	415.19	125.18	69.89
	40.60	18.16	65.55	34.14	69.84
		43.69	295.43	88.56	69.83
	82.42	40.09	151.39	91.91	69.83
	389.37	82.84	518.22	172.58	69.83
	171.08	83.75	102.96	99.73	69.82
	36.73	13.76	61.83	31.90	69.82
		77.72	463.55	259.47	69.80
		33.42	122.46	38.98	69.79
	132.61	42.50	344.40	385.03	69.78
		166.06	571.10	228.60	69.77
	366.90	66.96	278.05	99.94	69.75
	55.21	18.42	74.69	23.71	69.75
		12.41	21.99	21.24	69.73
			1398.10	790.55	69.73
	262.03	59.59	349.92	94.63	69.72
			245.35	76.20	69.70
		77.45	118.24		69.70
		34.62	98.91	45.09	69.69
	407.16	79.73	529.18		69.69
			93.89		69.68
			80.54		69.64
2436	40.94		63.44		69.64
5011			122.02		69.63
			456.96		69.62
			65.55		69.62

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TABLE 5:	CENERAL		Atty. Docket No. 44921-5039V Doc. No. 1798397		
ldentiffer	NonToxMean	NonToxSD	ToxMean		LDAScore
3493	56.09	16.33	78.09	27.67	69.58
13727	133.95	49.99	186.22	54.51	69.58
17339	2512.73	596.97	1882.04	680.16	69.56
6518	108.28	26.66	143.55	38.12	69.55
14484	468.99	102.51	371.12	113.87	69.50
45	184.62	61.15	131.00	98.51	69.50
4235	383.35	65.78	479.39	109.87	69.47
2350	631.18	75.04	733.81	127.04	69.47
20816	359.20	71.33	589.66	361.06	69.47
20448	51.14	15.80	96.53	91.69	69.45
3608	354.31	96.17	240.45	122.08	69.45
20829	754.23	187.16	1139.64	525.74	69.43
14388	133.84	46.32	189.57	73.63	69.41
13974	269.51	60.19	455.96	331.84	69.41
13611	289.40	97.62	194.81	124.78	69.39
9452	109.85	33.54	243.69	304.19	69.39
19679	744.23	156.00	548.50	220.11	69.38
23471	80.62	27.27	134.19	61.98	69.38
15596	200.04	61.45	269.73	83.16	69.38
17159			916.50		
9114	662.06	139.21		373.05	69.37
	907.26	198.07	711.93	216.95	69.36
7690	188.30	76.58	286.44	101.61	69.30
4462	896.55	240.26	700.53	283.12	69.30
15146	117.66	45.74	219.43	151.19	69.28
4747	52.09	18.56	76.30	30.54	69.28
4463	171.78	48.48	116.71	64.25	69.26
21275	208.39	53.25	293.29	120.48	69.26
22537	314.16	116.85	217.64	134.70	69.24
21015	224.01	149.40	523.06	502.39	69.21
14184	104.95	35.03	152.30	77.88	69.21
16859	113.00	39.98	171.46	70.52	69.20
13359	18.79	19.20	41.55	29.30	69.17
24192	65.10	27.46	107.06	63.04	69.17
22357	537.91	143.42	683.30	219.11	69.15
22540	1928.78	500.80	1396.93	518.89	69.15
15111	1008.00	256.31	739.45	278.04	69.15
23128	629.03	117.68	522.92	126.85	69.13
9905	702.23	115.37	558.07	156.97	69.13
	23.75	24.01	57.01	48.92	69.12
	316.03	77.43	447.83	179.03	69.12
	401.15	78.89	312.93	100.71	69.12
	1425.24	337.03	1039.20	391.69	69.12
2059	134.19	33.99	173.66	52.56	69.11
21125	163.43	45.61	120.34	59.14	69.08
4048	-12.32	8.61	25.98	74.75	69.08
13349	122.00	33.87	171.03	54.95	69.08
20086	103.42	54.54	186.02	112.44	69.07
	177.49	39.38	246.64	72.25	69.07
	84.49		133.01	68.89	69.07
	389.45				69.04
	55.77		79.31		69.03
3221	192.95	91.60			69.02
	100.42				69.00
	540.79				69.00
					68.99
10070	10.20	10.00	UE.30	17.00	00.00

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TABLE 6:	CENERAL	明6.15年,成立。	Atty. Do		9 <b>921-5</b> 03977 No. 1793397
ldentiffer	NonffoxMean	NonToxSD	ToxWeen	Toxon	LDAScore
21895	415.77	107.68	527.63	122.68	68.99
6674	2589.26	1592.43	11970.28	559.33	68.97
4330	519.93	146.26	393.68	177.88	68.97
1698	59.46	33.76	154.33	1156.35	68.96
6927	351.13	88.63	276.07	87.17	68.95
15879	389.05	88.44	309.88	89.07	68.94
17269	669.21	164.65	510.44	183.69	68.94
809	38.57	18.55	73.18	50.10	68.93
25567	429.75	132.83	636.76	280.62	68.91
6711	46.47	22.83	68.95	25.01	68.91
25777	370.17	1112.15	585.45	351.28	68.90
22801	1309.01	233.61	1102.68	241.27	68.88
17447	912.03	226.33	708.62	297.79	68.88
1603	652.04	149.41	516.80	165.06	68.85
20460	363.41	1114.33	257.61	112.54	68.84
21145	216.97	60.61	173.14	61.10	68.83
25453	225.18	45.75	181.00	63.32	68.81
14670	1156.99	219.65	1505.97	540.37	68.80
19623	56.27	29.98	87.15	39.31	68.80
12716	167.13	43.68	133.50	41.78	68.80
24236	75.95	22.54	104.28	32.01	68.79
15617	118.52	33.89	39.26	21.38	68.79
3925	498.78	107.84	390.92	113.69	168.77
20449	39.97	25.35	119.71	151.16	68.76
21390	89.77	28.23	115.10	33.69	68.76
23514	434.32	164.14	307.02	151.33	68.74
20849	259.38	58.40	370.11	145.72	68.74
794	224.09	52.71	162.86	64.32	68.71
4592	183.27	30.19	222.63	53.46	68.70
13614	325.22	70.14	423.70	138.23	68.70
12673	32.94	15.97	60.47	35.35	68.69
3125	347.43	89.73	270.34	103.82	68.67
4232	131.63	36.97	170.35	127.98	68.67
1399	187.08	41.04	289.41	156.72	68.66
13930	114.32	44.14	212.08	140.70	68.65
5689	9.09	13.75	27.68	24.99	68.63
2370	1158.46	172.59	949.24	224.94	68.63
4933	93.92	113.34	358.13	386.59	68.63
406	374.38	68.18	306.59	91.47	68.62
22957	165.92		266.91	150.55	68.62
2768	2026.25		1657.86	463.04	68.61
24197	243.13		185.53	85.38	68.60
16650	242.10		338.01	127.40	68.57
8085	36.42		58.09	26.97	68.57
1712	167.50		216.60	72.08	68.57
5565	407.17		305.41		
16883	1543.18		1229.72		68.56
13622	45.42		87.87		68.55
17807	711.63				68.55
3496			948.59		68.55
11559	39.06		64.65		68.53
11559	615.91		505.06		68.53
	1013.42		1274.36		68.53
	99.66		216.92		68.53
	268.02		378.26		68.53
21105	323.39	54.03	270.87	64.06	68.52

	CENERAL		Atty, Docket No. 44921-5039 Doc. No. 17933		
klentifer	NonToxMean	NonToxSD	ToxWean	ToxSD	LDAScore
18900	449.75	84.06	557.56	130.48	68.48
16709	858.46	1172.57	1709.82	1176.49	168.46
1993	26.13	15.23	53.08	37.27	68.43
13348	116.50	39.71	170.35	84.06	68.43
11454	223.14	54.78	315.07	133.93	68.43
18606	608.53	116.39	789.92	1267.15	68.43
2986	39.62	12.73	54.78	118.98	68.41
15644	1338.83	225.09	1588.45	345.24	68.39
22541	3613.59	853.73	2681.23	879.66	68.39
17905	902.96	243.00	654.49	232.60	68.38
408	201.66	67.43	144.70	78.36	168.37
21409	86.43	35.21	1119.21	45.92	68.37
22543	721.16	195.27	540.47	258.13	68.36
3863	214.88	78.45	158.64	93.71	68.36
21596	100.77	27.25	132.16	47.14	68.33
1583	25.58	12.08	46.81	25.12	68.32
8917	41.59	14.82	56.19	17.88	68.31
17324	371.15	66.13	297.98	105.05	68.30
5199	641.61	169.29	484.54	199.84	68.29
11164	532.49	129.79	382.15	153.36	68.28
10887	76.37	24.73	54.29	25.72	68.28
15540	36.28	11,51	64.56	42.69	68.27
4949	1162.93	273.54	892.52	329.00	68.26
21024	596.29	101.41	489.27	121.68	68.26
19085	70.29	20.84	101.53	44.09	68.25
25718	380.48	63.33	465.71	138.80	68.25
3981	53.40	27.49	166.56	218.99	68.25
19939	176.96	53.69	235.92	70.52	68.24
21305	438.34	113.88	332.58	104.75	68.23
22833	431.45	106.61	540.94	147.67	68.23
13310	116.08	48.35	197.32	125.83	68.22
19187	102.48	30.70	135.61	50.44	68.21
	27.06	22.52	56.30	38.43	68.21
	78.92	42.28	60.83	59.54	68.21
	52.55	31.11	94.44	49.63	68.20
	78.97	20.73	98.29	25.44	68.20
	30.66	16.63	56.30	35.67	68.19
	749.61	138.38	631.19	195.15	68.19
		79.30	558.85	188.65	68.18
		55.30	189.70	64.51	68.17
17316	70.29	31.03	47.27	32.31	68.17
		32.97	104.50	38.05	68.15
		45.05	251.81	139.06	68.15
		18.28	64.87	29.10	68.14
5855	74.85	27.42	52.36	35.41	68.14
				57.33	68.11
					68.11
					68.10
					68.10
				595.26	68.10
		19.78	90.90	31.53	68.09
			302.78	72.37	68.09
	738.89	191.34			68.09
	738.64	159.14			68.09
819	230.72	47.15	189.99	56.21	68.08

007 and 2 52	Ceneral		atty. Do	eket No. 44921-5089VV Doc. No. 1798397		
(dentifier	NonToxMean	NonTexSD	ToxMean	Torson	LD/AScore	
1942	12.95	13.20	145.54	148.73	168.08	
514	4.47	50.55	152 66	158.22	68.06	
19768	683.61	138.87	883.43	263.72	68.06	
5183	204.36	51.85	284.20	109:64	68.06	
24375	107.65	26.73	157.63	66.73	68.05	
6059	199.74	47.55	169.09	54.88	68.04	
12937	20.23	21.04	62.89	58.77	68.04	
3245	97.45	32.09	132.43	48.29	68.02	
19469	376.00	72.62	300.86	98.78	68.02	
22696	72.56	48.08	25.09	39.70	68.02	
4355	116.49	44.14	163.32	82.62	68.01	
21579	110.85	35.32	153.51	68.22	68.00	
1431	521.93	166.42	374.89	194.57	67.99	
9673	66.91	27.02	44.90	26.55	67.99	
20257	137.10	42.30	102.53	48.53	67.99	
12961	185.53	42.22	151.73	41.05		
22538	338.12	80.15	255.39		167.97	
7243	56.76	22.51	79.45	90.87	67.97	
634	64.78			28.02	67.96	
17438	62.59	29.00 33.01	96.85 31.95	47.59	67.96	
1581	70.58			40.59	67.96	
		17.49	93.61	30.37	67.96	
25379	75.47	18.52	100.15	31.59	67.95	
2153	153.35	49.73	361.58	346.41	67.94	
7499	17.61	8.98	28.61	16.07	67.94	
3102	150.29	40.49	187.75	46.70	67.94	
3878	479.08	106.98	389.02	107.79	67.93	
20122	174.65	39.83	214.44	52.37	67.93	
828	122.12	53.45	207.48	104.75	67.92	
1455	106.22	31.64	162.96	86.72	67.92	
6058	146.84	40.61	225.40	102.56	67.92	
	42.81	36.02	114.42	124.08	67.90	
	290.74	86.07	214.07	102.16	67.90	
	25.17	14.49	39.46	20.61	67.89	
	139.84	54.27	253.98	211.46	67.89	
	119.46	36.34	92.66	39.95	67.89	
		46.57	173.47	50.00	67.88	
		32.93	153.92	65.34	67.87	
		68.33	187.10	77.46	67.86	
		107.90	761.75	241.85	67.86	
		50.69	294.15	83.02	67.84	
		42.51	160.57	70.87	67.83	
	167.38	35.91	216.33	60.90	67.83	
		149.11	607.48	946.55	67.81	
		15.90	60.56	35.71	67.80	
543	268.34	96.90	185.92	86.13	67.80	
			696.29	236.36	67.80	
	102.89	42.50	68.46	48.06	67.80	
25			42.35	25.50	67.80	
			148.92	66.25	67.78	
			39.23	36.39	67.78	
			768.87		67.76	
			176.82		67.73	
			25.42		67.73	
			52.96		67.72	
			64.96		67.69	

Alty. Doctot No. 44921-501977 Doc. No. 1793397.							
klentifier	meelWixoTmoK/	NonToxSD	ToxMean	ToxSD	LDAScore		
9061	1135.34	236.25	942.16	1326.87	67.69		
12331	618.37	134.26	483.61	182.86	67.69		
13962	523.52	110.90	438.13	148.62	67.68		
24277	134.73	41.18	181.65	55.29	67.67		
14790	176.36	78.47	102.86	72.99	67.67		
18528	361.23	136.11	589.25	331.81	67.66		
19665	81.08	33.19	142.12	76.68	67.66		
14242	32.67	14.37	49.07	20.85	67.64		
17407	1713.79	374.66	1443.40	337.67	67.64		
6765	820.06	183.88	653.70	231.97	67.62		
9514	675.01	129.64	570.37	132.48	67.62		
22602	334.13	94.17	237.80	117.01	67.57		
19822	1669.92	376.25	1281.37	430.75	67.56		
9699	58.47	18.16	42.68	19.82	67.55		
12812	99.34	33.83	74.64	38.83	67.55		
24566	200.15	82.45	135.98	77.12	67.54		
17499	24.56	23.09	55.11	35.51	67.53		
18447	1233.88	274.38	958.23	329.75	67.53		
21014	142.85	40.94	210.35	117.97	67.52		
2536	406.73	114.26	323.04	150.73	167.51		

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TABLE SA Timepolist	: ACYCLOVIR (s): 24, 168 hrs		Allty, D	ocket No. ( Doc.	94921-508900 No. 1798827.1
Identifier	NonToxMean	NonToxSD	ToxMean	ToxSD	LIDAScore
25419	159.17	64.32	38.16	18.66	99.48
25415	169.94	67.00	36.68	10.41	99.48
1872	723.76	219.40	182.16	67.65	99.36
17198	814.88	264.22	145.60	82.51	199.14
17567	1172.88	345.04	2623.71	250.73	98.97
14959	616.48	139.00	11288.62	137.24	98.84
20945	896.18	242.10	1896.41	180.47	98.80
16245	387.31	1114.26	41.23	45.70	98.80
10887	73.83	25.90	17.83	4.94	98.67
4222	544.00	97.71	1042.92	176.22	98.67
19161	1064.06	296.13	2360.57	327.19	98.63
15626	1281.17	347.65	3250.17	648.92	98.58
11849	701.03	165.94	1608.51	320.36	98.50
20872	832.75	216.84	1896.38	376.01	98.50
15875	1175.87	375.74	2630.93	347.24	98.45
10498	1085.24	333.50	2568.66	334.73	98.45
20884	639.33	257.31	46.55	54.58	98.37
13151	702.17	319.88	2212.94	511.24	98.32
18611	1409.99	440.83	2945.57	350.22	98.28
20885	538.89	188.67	83.65	54.88	98.28
16244	40.33	21.14	-0.26	5.01	98.24
16918	1172.71	382.43	2977.59	742.16	98.15
3027	1121.82	319.93	2267.04	262.71	98.15
20056	309.42	59.71	118.77	41.29	98.11
16205	932.31	252.05	1896.76	307.48	98.02
20812	1107.00	305.73	2296.29	293.56	97.98
14384	375.87	76.79	604.80	58.76	97.94
24615	809.56	214.82	1799.64	368.34	97.94
17524	1175.90	282.46	541.39	119.09	97.85
20839	1037.63	274.92	2191.65	391.42	97.85
18250	1088.85	307.06	2058.50	257.28	97.77
22846	1492.71	284.92	855.87	120.77	97.68
3026	512.85	99.35	933.31	159.19	97.64
13647	864.69	256.24	2095.09	431.00	97.64
17563	1195.18	331.95	2542.06	387.04	97.59
17473	422.91	93.66	796.08	169.41	97.59
20746	673.25	126.38	1181.14	211.43	97.59
19359	1061.61	314.08	2336.47	601.88	97.51
15201	1478.32	513.09	3558.35	808.75	97.47
15052	1433.93	492.46	3597.61	980.31	97.42
4490	76.73	73.42	270.49	135.30	97.42
2696	773.00	225.06	1860.28	390.37	97.42
22552		90.91	645.46		97.38
1694	1139.80	326.74	2255.77		97.38
19824		67.29			97.34
16333					97.16
16150					97.16
					97.16
		103.56	772.54		96.99
					96.99
					96.95
					96.86
					96.78
					96.74
					96.65
					96.65

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<b>Timepoint</b>	: ACYCLOVIR (s): 24, 108 b/s			Doc	7449211-5089W0 1. No. 1793397.1
kdenOfffer-	NonToxMean	MonToxSD	ToxiMean	ToxSD	LDAScore
24577	1170.09	364.08	2400.41	1380.56	96.65

	B: ACYCLOVIE	3	Ally, Do		921-5009
	((s): Clas		The state of		<u>lo. 179339</u> 7.
dentiller	NonToxMean	MonToxSD	ToxMean	ToxSD	LDAScore
2572	1079.22	272.72	292.63	34.53	99.96
657	325.86	85.70	825.82	155.34	199.96
15174	582.65	154.01	11160.30	40.29	199.96
22060	120.39	46.22	489.85	39.32	99.87
21151	108.89	64.20	1068.35	133.62	99.87
17546	542.45	131.44	1300.18	82.92	99.83
8477	528.52	158.91	1301.77	46.70	99.83
16993	147.03	72.47	5.04	12.16	99.79
10667	41.39	38.71	-236.50	27.34	99.79
3822	915.99	266.90	2473.92	69.91	99.74
17157	50.71	97.99	182.37	23.19	99.70
4532	266.41	75.57	62.22	7.77	99.70
15004	160.24	140.85	1576.85	132.63	99.70
4832	149.39	47.92	32.65	11.70	99.70
11836	219.06	64.52	69.22	8.46	99.61
24390	165.64	111.19	-250.24	60.63	99.61
24200	421.04	138.48	1131.90	38.93	99.61
15002	137.74	85.32	904.65	69.55	99.61
3713	1141.71	271.69	457.32	36.48	99.57
6778	109.70	31.47	262.53	25.12	99.57
7936	149.06	36.24	49.64	5.41	99.57
13542	446.95	133.65	59.60	28.78	99.57
22385	107.82	53.29	22.50	3.64	99.57
20700	74.63	363.62		549.12	99.57
15190	1801.09	1118.86		404.27	99.53
20698	-0.10	63.70	407.01	114.99	99.53
9757	408.35	98.75	159.69	13.35	99.53
15077	87.92	41.66		3.82	99.53_
12301	58.09	29.22		30.79	99.53
24041	881.73	218.32		48.65	99.53
	11.98	28.98		61.01	99.53
19780 12899	47.97	40.89		31.79	99.53
	-9.55	17.51		30.06	99.49
	29.40 86.60	30.63		32.17	99.49
		192.11		288.42	99.49
874	-48.26 118.63	30.91			99.49
		59.95 146.14			99.49
		43.98			99.49
					99.49
		69.54 44.96			99.44
			358.76		99.44
		35.30 162.35			99.40
					99.40
					99.40
					99.40
					99.40
		48.04 83.63		28.29	99.36
					99.36
					99.36
					99.36
					99.36
		125.08	82.73		99.36
					99.36
	244.95				99.36
0856	55.56	46.37	-5.93	3.53	99.36

	B: ACYCLOVIE	S 10 17	Ality. Docket No. 44921-518900			
	((s)): 6 hrs		Doc. No. 1798397			
ldentifier	NonToxMean	NonToxSD	ToxiMean	ToxSD	LDAScor	
5931	182.37	66.37	9.61	8.36	199.36	
24042	18.74	67.93	1772.42	198.67	199.36	
17765	1285.78	452.80	2557.67	163.52	99.31	
17470	102.21	54.04	410.26	61.20	199.31	
2010	32.91	314.74	355.60	90.97	199.31	
20848	510.27	150.82	1095.65	124.39	99.31	
17591	385.36	90.04	744.25	62.21	199.27	
1340	192.09	49.88	96.02	6.73	99.27	
7806	51.84	19.09	1122.32	8.65	99.27	
7493	78.12	36.73	174.58	4.92	99.27	
20035	180.04	101.54	817.96	80.03	99.23	
19657	3.30	17.67	125.30	119.29	99.23	
24563	309.99	99.44	4.82	17.01	99.23	
22453	171.10	46.39	60.55	10.10	99.23	
23995	161.66	57.89	380.58	131.88	99.23	
15191	1989.62	1126.31	8988.79	11157.81	99.23	
11326	332.40	95.69	194.87	14.33	99.23	
7586	793.77	201.98	306.02	29.21	99.23	
2392	154.00	87.41	11138.50	400.02	99.23	
4205	222.66	72.63	591.81	54.59	99.23	
8245	54.69	20.70	113.91	5.63	99.23	
16324	194.65	61.24	42.04	11.21	99.23	
12404	105.63	62.52	662.04	167.20	99.23	
7639	753.14	166.01	339.14	44.82	99.23	
20895	331.67	100.56	50.78	24.52	99.19	
22018	158.66	41.98	360.67	50.74	99.19	
3823	524.10	147.80	1250.81	97.60	99.14	
3477	13.58	161.23	99.71	26.48	99.14	
223	11.18	17.65	124.61	25.10	99.14	
5146	130.31	69.77	744.71	139.52	99.14	
25069	134.29	60.66	25.21	12.36	99.14	
3431	1503.29	617.93	3867.63	202.46	99.14	
3271	576.75	119.79	239.69	44.71	99.14	
054	26.29	47.50	386.77	134.53	99.14	
20202	627.69	194.14	49.29	62.88	99.14	
5546	473.74	139.13	145.65	40.29	99.14	
9781	113.50	55.43	454.62	115.29	99.14	
		53.30	334.10	50.62	99.10	
0281		157.24	1702.50		99.10	
		75.70	1560.61	720.48	99.10	
		143.86	1201.51	175.46	99.10	
			297.57		99.10	
			92.30		99.10	
			353.57		99.10	
					99.10	

TABLE 50 Timepoint	: ADR (s): 120, 163 hr	3	AMy. De	eket No. 4 Doc. 1	4921-5039W No. 1793307
dentifier	NonToxMean	NonToxSD	ToxMean	TORSO	LDAScore
1688	5353.71	3830.70	26.75	39.23	99.44
25469	1577.10	747.53	25.91	13.98	99.44
1684	2831.22	1612.49	24.53	31.27	99.44
17829	2235.92	11102.19	68.14	58.70	99.44
25468	2186.32	1123.33	111.47	113.96	99.44
26150	783.82	532.35	-38.06	15.15	99.40
1687	1894.26	855.11	45.95	32.94	99.31
1685	9226.22	7079.05	58.61	94.83	99.31
1689	4411.94	2221.14	43.26	28.59	199.31
17832	1976.64	870.20	17.22	14.67	99.18
19358	792.56	328.04	6.04	46.93	98.71
18907	102.84	49.44	17.51	7.82	97.33
25467	636.86	169.13	11263.84	257.87	97.25
4011	457.30	195.33	953.88	244.47	96.78
14199	71.52	35.30	26.74	5.48	96.09
2852	49.29	27.79	19.72	2.87	95.92
21140	109.12	47.83	38.53	9.71	95.83
4594	63.32	30.73	22.33	5.88	95.44
7089	102.25	41.59	48.02	7.26	95.40
2984	582.52	185.78	258.99	70.15	95.27
1831	49.81	23.36	10.63	6.34	94.67
25705	455.64	115.95	612.52	59.36	94.45
16109	414.49	75.48	1556.38	45.14	94.28
11165	529.31	155.75	1250.39	51.44	93.98
19237	77.59	39.42	110.97	14.64	93.68
16401	1239.09	805.30	2322.72	497.80	93.68
109	547.11	293.37	1681.21	571.81	93.63
4312	77.34	39.04	127.17	10.27	93.51
16400	580.43	474.95	1090.34	298.55	93.42
18794	138.50	77.18	48.95	11.54	93.38
7489	81.80	32.11	25.62	12.02	93.34
2586	52.04	30.18	14.65	5.97	93.04
17742	1059.53	304.09	1669.92	253.17	92.99
956	54.64	39.22	1.90	10.80	92.78
7563	1201.38	349.79	1590.38	101.68	92.69
2125	78.10	82.13	-4.59	19.58	92.69
4844	32.09	22.37	8.57	2.19	92.65
6676	38.73	27.29	17.84	2.42	92.61
	60.60	62.41	14.86		92.61
	285.39	89.91	428 27	70.75	92.56
	34.74	32.18	3.43		92.48
	325.54	286.68	14 24		92.43
	55.98	36.26	16.33		92.39
	69.71	34.49			92.26
		46.19			92.22
	459.56	105.59			92.12
	280.85	109.78			91.79
		60.26			91.66
		50.50			91.40
		173.83			91.27
					91.27
					91.23
					91.06
					91.05 90.96

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Timepoin	8: ADR ((s): 1120, 163 hr		Mary Town	eket No. 4 Doc. (	4921-5039WC No. 1793337.1			
Identiffer	NonToxMean	NonToxSD	Tox/Mean.	Tonso	LDAScore			
8597	240.84	58.03	315.06	30.21	90.89			
16582	56.67	19.30	29.31	15.28	90.89			
1321	510.50	1316.91	1496.60	371.84	90.88			
14337	211.54	44.52	148.64	18.05	90.84			
19191	1011.62	281.12	631.62	94.67	90.76			
20716	652.51	142.58	1029.68	128.61	90.75			
8017	188.58	76.89	406.11	152.05	90.66			
18502	670.14	243.60	313.44	1111.24	90.63			
2782	214.23	97.42	522.66	132.70	190.62			
13354	88.85	57.76	34.85	9.49	90.50			
22696	62.39	50.49	-5.66	12.94	90.50			
4242	749.55	1193.32	1337.17	268.80	90.49			
12660	71.28	22.64	44.42	15.74	90.46			
15892	118.01	22.79	36.39	7.65	90.46			
25517	39.47	33.13	2.75	7.99	90.41			
22697	59.68	40.43	15.77	10.73	90.33			
16448	129.58	38.04	43.90	19.88	90.32			
1058	75.84	35.86	30.65	8.83	90.24			
7863	1200.90	307.30	1386.51	55.05	90.24			
11967	1725.17	550.50	1088.97	237.35	90.20			
516	155.59	33.01	17.20	9.40	90.11			
25736	24.77	16.54	7.84	4.16	89.98			
6544	53.15	110.52	379.03	173.46	89.89			
21651	32.42	26.38	7.38	3.39	89.85			
16581	39.86	19.57	17.01	3.68	89.72			
2607	218.90	50.79	175.06	11.54	89.55			
15247	637.26	192.10	1113.60	210.08	89.41			
5691	119.56	54.62	32.51	16.76	89.41			
20702	300.67	70.50	198.62	33.60	89.38			
10109	1044.97	289.50	1362.38	117.72	89.34			
24040	557.97	233.98	196.88	87.97	89.29			
1169	90.18	28.72	92.58	4.98	89.21			
5421	279.85	96.20	162.53	31.31	89.21			
9244	1224.80	382.60	1678.75	173.86	89.17			
3015	2307.62	994.19	2930.38	184.09	89.12			
21695	60.82	36.14	4.02	14.39	89.03			
1218	102.70	37.49	47.65		88.95			
21766	286.32	76.11	204.08	26.91	88.95			
94	698.84	215.82	1186.69	207.80	88.86			
4528	61.08	25.93	19.77	8.13	88.81			

NAME SD	VAY Y	a to the state of the	AMY. Do	ocket No. 4	ocket No. 44921-5039		
umepoint	(S)): 3000 hrs			Dog.	Mo. 1793397		
denditier	NonToxMean	NonifoxSD	ToxMean	Torso	LDAScore		
6360	7.76	5.80	30.12	3.08	99.36		
18826	1069.51	321.45	1473.21	131.01	199.32		
24886	1264.06	1371.77	2165.64	63.29	99.27		
6517	233.00	158.96	437.46	12.19	99.19		
16576	111.85	41.47	67.47	10.61	199.19		
22846	1490.00	287.46	852.52	44.29	199.10		
2708	383.37	87.00	425.82	1.07	98.97		
14349	413.99	144.50	244.25	12.46	198.97		
13023	187.03	420.15	-22.68	5.86	98.85		
6585	653.17	368.20	239.73	12.54	98.76		
	35.54	16.49	-7.39	3.34	98.76		
25066	136.51	58.55	34.09	4.82	98.72		
21796	696.51	210.24	11145.40	47.75	98.67		
3610	1195.23	334.91	780.10	28.06	98.67		
24236	80.80	27.74	39.65	1.30	98.67		
	858.19	319.87	3220.95	1137.23	98.59		
	2630.76	734.18	3325.88	12.22	98.59		
	658.60	175.52	1275.16	135.82	98.59		
	86.01	35.25	28.41	2.70	98.55		
	7.63	18.34	30.64	0.79	98.55		
	284.29	87.14	421.47	22.09	98.42		
	-21.77	38.66	56.32	5.98	98.37		
	189.25	67.72	0.93	13.47	98.33		
	20.04	24.02	29.17	0.30	98.29		
	24.04	24.97	9.37	0.65	98.29		
	404.59	87.09	292.34	2.67	98.29		
	4.72	6.91	30.15	9.22	98.25		
	389.44	87.17	225.68	12.21	98.25		
	740.64	221.38	1485.37	218.95	98.20		
	608.46	110.69	956.12	79.60	98.20		
	141.35	34.03	72.48	5.99	98.12		
	33.98	17.04		0.97	98.03		
	99.49	46.40	23.57	5.02	97.99		
	235.14	64.79		43.64	97.99		
	204.58	95.56	321.83	10.61	97.99		
	233.44	86.68		16.38	97.95		
	24.56	22.71		2.16	97.95		
	203.93	53.62		2.18	97.95		
	11.29	9.18		0.35	97.95		
	182.74	59.18		1.72	97.90		
	467.00	120.07		10.28	97.86		
	225.58 1075.32	214.69		15.21	97.82		
	85.43	410.99		951.97	97.82		
	520.25			5.81	97.82		
	777.90	296.25		460.18	97.78		
	223.21				97.78		
	384.42				97.78		
					97.73		
	411.00				97.73		
683				1.35	97.69		
683 2 1590 2	276.38						
683 2 1590 2 56 8	276.38 32.41	35.72	33.35	5.40	97.69		
683 2 1590 2 56 8 0241 6	276.38 32.41 57.50	35.72 27.73	33.35 4.65	5.40 11.47	97.69 97.69		
683 2 1590 2 56 8 0241 6 75 5	276.38 32.41 57.50 516.42	35.72 27.73 162.40	33.35 4.65 1038.56	5.40 11.47 193.69	97.69 97.69 97.65		
683 2 1590 2 56 8 0241 6 75 5 0784 2	276.38 32.41 57.50 516.42 24.89	35.72 27.73 162.40 30.12	33.35 4.65 1038.56 -21.79	5.40 11.47 193.69 6.29	97.69 97.69		

		-38	8-		
TARKE SE	D: AY	PROVIDENCE SA	OMno @o	-00-00	1/10/04 (1000000)
	Xish: 360 imas	ARREST STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET, STREET,	المعتدد		19921-5009W No. 1793397
Identifier			lifemWeed.		LIDAScora
24042	21.86	84.61	J58.64	10.50	197.56
15135	706.76	182.37	1034.39	31.17	97.52
6790	63.12	24.62	19.35	3.71	97.52
6743	1405.82	280.92	2262.37	206.08	97.52
6351	45.29	26.36	88.65	2.94	97.48
18942	-11.45	110.37	24.19	16.98	197.43
6726	1393.51	104.57	1242.70	10.50	97.43
9808	30.77	14.74	50.69	11.63	97.43
21078	567.53	143.04	1363.30	111.51	
22619	371.47	90.93	316.17	2.78	97.39 97.39
1058	75.62	35.90	24.89	3.27	
22692	209.08	63.65	1106.95	5.50	97.39
21914	404.11	71.79	635.41	166.12	97.39
22063	68.58	25.03	47.50	0.52	97.39
1162	10.60	37.16	1138.81		97.35
15224	689.92	152.18	1138.23	40.04	97.35
24178	2.75	9.42		103.80	97.35
20891	140.77	49.29	20.42	4.02	97.31
17393	145.61		78.20	3.12	97.31
17061	557.85	59.87	87.56	1.63	97.31
21656	54.49	95.17	904.28	161.35	97.22
23651	656.34	25.08	22.60	1.43	97.18
2357		623.55	2317.09	936.44	97.18
8130	76.01	23.05	69.48	0.72	97.13
23898	378.79	74.65	591.90	50.88	97.13
363	10.17	6.54		7.27	97.13
920	89.83	29.45		13.77	97.09
	78.42			3.10	97.09
1930	597.55	127.69		256.19	97.05
2770	600.59			29.99	97.05
3799				5.19	97.05
757	23.41			3.13	97.05
8419	1317.37			536.46	97.05
023				3.42	97.01
811	35.76			0.86	97.01
				18.30	97.01
				2.45	97.01
					97.01
				487.81	96.96
				16.98	96.96
5411	305.14	91.59	162.75	9.40	96.96

Timepoin(	: DEA (S): 6, 24 hrs			eket No. 4 Doc.	4921-5089W No. 1793897.
ldentiffer	NonToxMean	NonToxSD	ToxMean		LD/Sagra
21011	154.85	315.31	689.68	175.67	98.32
21015	271.80	338.52	933.97	202.57	97.98
21013	214.58	340.35	710.95	1153.21	97.68
22057	349.60	55.08	477.85	22.42	97.33
8477	529.15	164.21	876.56	149.54	97.03
23849	285.73	136.63	521.70	61.30	96.65
15969	339.58	71.02	574.34	94.47	96.47
5901	92.67	50.17	176.54	31.37	96.43
17034	885.84	144.51	1193.98	193.26	95.36
23140	172.19	53.17	288.43	107.64	94.67
6143	560.24	135.28	861.03	122.25	94.20
22931	79.76	48.36	19.97	14.03	94.15
13608	21.70	23.78	164.61	113.40	94.07
3167	308.80	70.69	438.24	41.83	94.07
17771	769.01	307.47	1086.30	71.95	93.98
	87.73	37.06	137.33	14.74	93.42
17563	1206.59	350.63	917.80	32.07	92.99
3551	440.44	98.71	307.06	31.45	92.69
22885	1347.43	493.33	2161.55	380.96	92.61
8515	262.49	109.22	1415.39	29.53	92.52
20745	471.03	70.08	354.88	30.48	92.30
4748	110.75	127.98	202.78	32.60	92.18
	368.78	99.86	530.10	59.33	91.92
14874	50.39	17.11	78.62	12.99	91.66
	2492.78	1106.79	1806.41	173.96	91.53
	638.00	170.57	841.33	45.73	91.53
5844	124.24	58.33	32.11	26.05	91.53
		568.48	3182.90	249.42	91.36
		27.77	27.67	6.47	91.32
3205	398.00	113.24	583.05	83.76	91.23
		78.34	254.55	53.39	91.23
		75.94	197.90	43.39	91.22
		39.24	177.58	40.40	91.14
		302.42	1751.48	71.12	91.06
		27.71	30.30	10.38	91.01
		281.39	581.40	91.29	90.97
		430.77	1096.37	215.26	90.80
		1190.40	1912.67	180.40	90.28
4862		72.28	270.61	28.36	90.28
		95.44	241.19	39.11	90.24
		74.63	398.13	39.83	90.15
			268.20		90.15
			64.91		90.07
			278.09		90.07
			447.07		90.03
			208.10		89.97
			2581.41		89.72
			50.58		89.72 89.68
					89.68
					89.64
					89.63
					89.63
					89.60
					89.59
1000 1	5.97		1236.56 13.37	236.71	89.59

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	int(s): 6,24 hrs				No. 1793397.
ldentiffe	er NonToxMean	NonToxSD	ToxMean	TOKSD	LDAScore
3081	387.79	84.55	253.14	37.34	189.46
7895	997.72	308.71	1503.83	263.73	89.46
3924	183.13	68.64	101.62	16.04	89.34
24181	85.08	27.22	145.70	16.84	189.33
2752	405.86	139.92	593.99	60.88	89.33
1159	886.55	231.02	611.65	64.43	89.29
24388	188.48	72.47	251.08	130.81	89.29
3926	176.00	56.73	103.17	18.22	89.25
18981	231.55	65.64	189.11	9.52	189.21
7838	19.58	15.00	21.80	3.33	89.17
24537	528.52	104.62	396.25	38.65	89.08
2688	173.21	54.36	243.95	28.16	89.08
19484	184.45	70.04	320.46	37.72	89.03
22855	561.72	144.30	886.81	141.20	89.03
12979	391.37	216.96	627.81	88.47	88.94
7223	88.64	27.62	152.72	24.63	88.94
23159	416.48	85.49	537.44	47.74	88.91
13563	1028.27	255.15	11603.62	170.06	88.86
3696	42.57	32.72	106.32	10.80	88.86
2855	920.64	212.77	1412.67	261.05	88.77
3580	9.48	10.46	22.09	6.90	88.74
2629	65.11	30.82	27.44	7.55	188.61
8810	1188.71	319.49	906.85	60.20	88.52
8770	1131.01	331.57	887.70	58.94	88.48
9577	494.98	92.34	376.82	38.52	88.48
8891	1378.10	409.91	1823.58	193.46	88.48
7914	1537.05	507.11	1256.25	91.53	88.44

TABLE S.	: CAPTOPRIL		Array, Diag	eket No. 4	4921-303
Timesoin	((s)): 336 has	But the Walls	1904. 11: 1		No. 1798
	NoniToxMean	MontoxSD	Mar Mean		LDASec
23859	-10.09	117.25	58.28	12.00	99.70
1522	181.53	92.60	-79.60	14.77	99.70
24668	76.16	46.93	11110.08	605.52	199.40
19287	161.27	40.70	265.00	9.72	198.84
735	125.45	37.81	123.72	0.37	98.50
1348	29.21	17.75	0.23	11.09	98.12
16260	66.53	18.90	82.33	0.49	98.07
24696	69.96	48.08	-11.83	7.33	98.07
826	182.43	53.09	63.46	18.28	197.90
15851	203.67	153.22	36.02	16.84	97.69
19120	32.71	25.65	-8.80	2.19	97.43
1480	253.73	66.75	1112.96	18.69	97.43
18659	51.26	29.25	80.08	1.30	97.43
15420	59.26	52.41	-14.25	13.04	97.39
2830	654.10	146.54	933.86	42.78	196.92
2658	891.04	236.04	443.07	41.79	196.88
17937	86.63	42.53	-12.26	22.60	96.83
10108	146.26	35.48	61.17	17.32	96.70
1223	191.43	47.65	289.39	15.78	96.66
16048	28.62	52.28	1-8.09	3.07	96.66
10774	26.49	116.73	40.49	1.17	96.62
16944	848.22	191.45	550.56	29.83	96.58
546	173.90	50.96	271.42	13.74	96.53
12819	184.28	47.07	239.54	3.32	96.53
5735	56.51	21.12	63.63	0.57	96.45
7956	27.42	11.15	39.67	0.69	96.40
12332	567.22	177.99	328.76	21.43	96.32
18346	273.04	62.53	138.13	21.45	96.32
16425	20.91	30.81	-13.41	3.05	96.23
8426	54.76	23.35	27.91	1.50	96.19
9964	14.13	28.09	41.16	1.54	96.15
15395	797.12	155.79	610.46	12.19	96.02
21458	229.75	104.67	360.26	20.40	95.93
15259	227.63	56.54	154.42	4.47	95.93
11057	33.19	29.92	61.96	3.13	95.89
397	116.22	33.32	88.25	1.44	95.89
20429	108.55	34.07	193.71	39.16	95.85
12333	218.47	76.94	109.09	10.32	95.85
12629	64.58	30.66	134.34	14.35	95.76
20833	1255.87	351.77	1350.26	16.51	95.68
10673	62.50	35.24	48.56		95.63
9518		23.15	73.23		95.59
5630		48.50			95.59
16036		20.66			95.55
23773		85.23	94.48		95.51
		20.17	98.04		95.46
	459.29	377.97			95.46
		28.06			95.46
					95.42
					95.42
		25.37			95.38
		45.14			95.29
					95.25
					95.25
					95.25
2665		29.89	159.98	3.47	95.21

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	<u>1((s): 336 hrs</u>			Dog.	No. 1793397
ldentifier	NonTexMean	NonToxSD	ToxiMean	ToxSD	LIDAScore
6581	76.47	26.45	43.08	12.63	95.12
260	417.04	1114.29	636.83	172.47	95.12
24814	171.62	33.74	127.03	15.19	95.12
13682	178.68	62.82	61.54	20.17	95.08
15028	346.53	107.46	569.31	126.83	95.08
17439	218.65	47.89	292.03	10.02	94.99
15797	20.60	17.76	-7.25	14.56	94.95
17549	1304.87	367.92	1416.98	24.18	94.95
17923	66.78	23.31	48.46	11.01	94.95
23360	178.74	46.59	218.52	2.99	94.91
20099	81.73	30.45	123.33	3.88	94.91
19327	89.68	29.52	50.76	3.50	94.86
5786	125.64	46.92	48.44	13.78	94.86
9929	531.71	124.53	680.04	14.58	94.82
2831	619.77	172.12	917.69	161.75	94.82
10477	88.24	37.19	51.43	12.96	94.82
21013	217.62	342.33	442.35	195.19	94.82
21651	32.33	26.35	2.01	13.21	94.78
19527	47.24	56.67	112.09	111.81	94.78
1921	178.67	59.48	97.23	10.49	94.73
8988	56.52	38.39	8.71	5.65	94.73
6766	481.24	157.08	653.99	116.43	94.73
18862	47.30	24.54	31.00	1.20	94.69
15470	328.11	71.27	198.29	29.91	94.69
3288	10.56	13.80	41.78	12.82	94.69
23109	2081.66	927.60	2211.62	60.64	94.61
7197	197.55	84.70	290.53	17.88	94.56
279	201.88	88.54	108.84	9.39	94.52
19581	48.08	32.46	66.08	3.68	94.48

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TARLE SO	CAREOPLAT	1100 = 3	Arm Day	also No. A	4921-5039W		
Timesolut		1000	varys Ees		No. 1793397.		
	Non CoxMean	IINagijar(Si))	liilow(Meen				
6262	739.41	208.31		76.80			
24048	689.96	212.19	1532.53		99.61		
17089	1547.81	626.59	4737.22	55.30 696.74	99.36 98.93		
	115.61	379.88	645.20	213.95	98.93		
25777	403.77	181.40	901.96	1112.12	98.37		
4933	134.08	1204.01	525.52	82.57	198.20		
	90.92	58.14	272.77	23.70	198.11		
	241.90	97.44	403.05	21.96	98.03		
	1518.47	439.97	2590.21	123.80	98.03		
	44.66	251.23	378.60	161.27	97.99		
10093	342.04	117.93	656.06	50.76	97.86		
	1820.60	698.77	1513.87	16.71	97.64		
25480	92.27	34.63	148.37	3.30	97.43		
	510.34	159.21	1020.51	105.54	197.39		
	504.54	113.43	793.61	51.11	97.34		
	285.39	90.75	560.36	75.34	97.04		
4067	123.93	59.96	232.57	36.85	96.92		
	124.24	104.63	362.40	83.14	96.83		
	95.89	403.64	202.84	47.87	96.79		
	87.59	36.45	200.11	36.34	96.74		
	584.52	131.77	819.56	51.87	96.70		
	71.21	275.95	495.11	153.82	96.70		
	326.31	77.12	471.75	21.93	96.66		
	215.35	107.06	443.46	37.86	96.62		
	193.57	116.65	442.55	77.30	96.57		
	257.26	67.93	377.18	25.53	96.53		
	900.30	154.78	1210.05	42.20	96.49		
	101.09 222.08	71.79 71.82	256.02	74.72	96.44		
	1949.63	787.42	422.51	61.76	96.36		
	2277.50	970.11	1501.46 1768.74	41.41	96.36		
	1190.78	434.96		46.20	96.23		
	247.57	87.35	1227.98 387.82	24.14	96.14		
	30.41		126.92	17.78 4.34	95.80		
	768.41	165.76	1038.58	34.89	95.76 95.72		
	248.67	55.97	320.59	9 43	95.67		
	521.69		851.48	104.45	95.63		
	564.46		713.81		95.54		
	350.22		570.66		95.46		
	2022.10		1796.87		95.42		
	71.58		693.92		95.42		
	228.95				95.37		
20026	34.36		120.87		95.33		
5192	69.06		389.95		95.29		
622	2067.46				95.29		
					95.20		
	269.96				95.12		
	324.23	140.30			95.07		
		207.18	1810.46		95.03		
		186.59	181.34		95.03		
				8.85	94.99		
				14.24	94.99		
					94.94		
					94.90		
					94.86		
208	055.01	435.10	2101.50	490.32	94.82		

	CARBOPLAT	7001	Allay, Dox	eket No. 4	49 <b>21</b> -5039W
	(s)): 6 hors	10.00	Barrie San	Dog.	No. 1798397
Identifier.	NonToxMean	NonToxSD	Toxidean	TOXSD.	LDAScore
3431	1514.30	636.90	1297.11	34.77	94.82
21462	258.49	59.82	358.44	18.51	94.77
3822	921.02	284.55	1300.83	199.42	94.73
15190	1824.97	11183.78	2141.03	82.58	94 69
19111	1604.90	429.51	2027.13	89.10	94.64
14906	383.54	73.03	535.04	39.09	94.47
13144	-27.27	17.64	-54.47	15.38	94.43
18142	1995.09	839.14	1819.48	143.33	94.39
13634	827.03	282.41	1137.48	107.16	94.34
2350	646.60	103.17	832.07	60.88	94.30
1537	31.35	46.10	59.58	13.80	94.26
13239	110.05	49.12	151.36	7.79	94.17
20864	1582.67	662.32	1722.73	33.76	94.13
12402	540.97	155.59	755.78	32.87	94.13
2424	585.64	132.80	807.06	45.48	94.13
15106	1894.10	713.95	1463.01	37.13	94.09
	402.63	145.28	719.92	106.90	94.04
	270.40	55.81	378.75	24.92	93.83
	310.40	151.71	490.70	80.01	93.79
22197	123.97	52.28	217.39	36.02	93.79
	42.03	18.39	51.72	2.31	93.74
	212.11	64.89	298.00	11.86	93.74
	44.47	68.11	62.07	10.39	93.74
21643	1185.08	370.10	960.79	22.49	93.74
	70.77	28.48	123.98	19.48	93.74
	1445.11	555.30	1017.49	34.14	93.70
	28.16		23.47	26.74	93.66
	1435.28	508.41	1360.96	40.18	93.66
			444.84	127.61	93.62
	3134.66		2572.78	105.71	93.57
			542.29		93.53
			152.72		93.53
			1066.71		93.53
			116.39		93.49
			2104.90		93.49
			24.43		93.44
			1252.44		93.36
			3.36		93.32
			22.98		93.27
					93.23
					93.23
					93.23
					93.19
20	2460.91	1164.05	2043.71	81,32	93.19

					PCT/US02/1613
-395-					
TABLE S Timepoli	H: CEPHALORIE ((s)): 6,24 hrs	INE F	AMy. Do	eliteti (No. 4 Doc.	4921-5039V/0 No. 1793397.1
lidentiffer	NonToxMean	MonifoxSD	ToxMean:		LDASoore
1698	72.61	72.54	355,15	57.50	98.88
25057	-16.00	13.42	28.61	15.15	198.84
23302	115.35	36.99	250.40	26.19	98.45
25098	44.75	40.56	161.77	39.01	98.45
7022	6.54	19.86	87.07	26.85	98.45
18005	16.30	11.61	71.95	28.31	97.64
16318 15849	1111.73	57.76	214.34	48.82	97.59
23283	181.68 520.93	73.50	381.77	34.83	197.29
651	12.40	94.30	765.95	70.15	97.25
16112	56.89	23.53	146.28	144.55	97.16
25198	33.14	18.60	1104.50	35.70 28.93	97.12
8879	109.65	35.18	198.92	13.77	197.12
19253	280.76	74.42	450.66	32.07	97.03 97.03
15376	140.99	45.51	267.24	27.71	197.03
21038	113.15	45.28	284.43	88.10	96.82
20917	114.76	34.55	1219.65	37.89	96.69
650	17.69	13.01	74.86	36.83	96.47
11411	252.17	76.16	422.51	26.01	196.35
343	28.78	32.80	129.29	21.40	96.35
16248	128.59	52.73	293.26	99.85	96.30
20843	165.02	37.03	274.00	60.23	96.30
18995	61.26	23.28	126.99	20.34	96.17
7050	68.24	24.46	1116.13	10.21	95.92
20753	128,41	31.77	231.50	37.70	95.83
18084	36.85	19.15	95.80	24.41	95.83
1764	97.37	32.56	181.11	28.78	95.83
22413	73.51	35.54	155.12	24.23	95.74
12162	313.72	69.35	466.55	53.66	95.57
9573	313.16	70.67	449.88	24.42	95.53
5458	521.55	111.52	766.69	82.52	95.49
23889	170.87	60.58	320.41	74.89	95.49
1623	84.54	20.77	130.31	10.23	95.44
19254	240.06	74.71	400.30	44.56	95.31
1628	13.93	10.20	37.44	6.38	95.27
572	-2.45	13.09	33.39	16.62	95.27
1855	13.51	8.02	32.00	4.11	95.18
3900	83.63	36.44	170.88	42.74	95.14
5281	172.53	45.57	282.14	34.03	95.10
582	16.73	13.23	46.93	7.97	95.10
25589	154.39	37.33	240.89	33.81	95.10
327	63.31	19.85	119.93	25.90	95.06
7434	163.74	49.10	263.86	22.79	95.01
1063	75.00	25.88	144.62	27.06	94.97
4353	61.97	20.12	119.73	30.32	94.93
850 059	87.12	29.12	157.80	23.31	94.93
6333	139.66	39.69	243.75	48.13	94.84
5377	132.19	38.88	212.16	19.97	94.71
3282	31.75 277.48	20.09	77.51	19.81	94.50
2058	109.37	51.59 35.93	385.61	37.11	94.50
952	163.81	35.63	194.17 235.14	43.87	94.45
2196	158.71	24.71	123.83	38.00	94.37
				37.19	94.37
6121	1110.03	60.28	200 77		
6121 4640	1177.93	60.28 59.42	208.77 295.24	16.39 35.00	94.33 94.33

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uasees site Vimenolinii	CEPHALORID si: G. 24 birs	line.	Aity. Doctet No. 44921-5039W Doc. No. 1793397			
	MonTox/Mean	NonfilexSD	ToxiMean	ToxSD	LDAScore	
12259	-0.17	9.62	121.16	17.74	94.15	
6790	62.58	24.20	118.33	27.25	194.07	
21802	45.94	21.21	103.13	135.44	94.07	
14125	128.30	50.32	211.96	115.22	94.07	
18183	31.28	114.65	67.29	14.30	194.02	
17225	162.76	46.10	264.51	40.73	93.94	
20514	83.93	25.89	146.04	21.67	93.94	
1342	31.31	15.65	72.08	26.80	193.81	
16616	88.26	137.98	165.12	31.68	93.77	
4386	55.88	26.02	117.38	28.79	93.77	
13464	30.34	17.92	75.47	19.34	93.68	
11358	82.35	33.88	151.50	27.12	93.59	
7866	43.15	16.17	81.51	16.07	93.51	
22967	163.95	54.65	241.59	15.86	93.47	
8385	57.15	28.33	114.53	19.32	193.42	
24748	-23.01	37.80	49.31	111.34	93.38	
16059	50.12	14.86	84.72	17.27	93.38	
16122	117.41	41.42	186.27	14.87	93.34	
1350	143.74	30.94	209.15	28.63	93.34	
8384	39.05	17.03	73.91	10.64	93.29	
18259	216.96	155.49	545.75	138,45	93.28	
20724	48.65	21.46	90.26	16.90	93.25	
352	87.58	153.82	157.16	24.98	93.21	
10740	26.94	24.94	69.61	15.31	93.12	
1394	24.70	11.31	42.23	3.80	93.12	
22466	462.31	92.72	638.40	168.34	92.99	
13684	467.12	135.55	762.39	150.04	92.99	
14768	85.99	47.21	225.50	66.59	92.98	
13285	71.32	19.47	109.95	16.43	92.91	
1537	29.82	140.75	245.05	131.87	92.90	
18442	38.53	117,21	75.30	16.45	92.86	
1183	52.85	29.47	214.38	101.63	92.85	
127	19.05	114.19	48.31	9.93	92.73	
1399	200.20	80.01	449.25	95.96	92.68	
11203	75.19	24.99	127.88	16.58	92.65	
870	22.03	9.87	40.53	4.22	92.61	
4415	38.66	118.55	77.02	14.75	92.61	
373	32.60	56.68	306.93	119.81	92.60	
22524	112.62	47.12	195.09	26.00	92.56	
5951	88.94	34.80	155.83	27.94	92.56	
13023	176.39	400.42	1491.81	754.76	92.55	
17836	102.26	27.02	156.20	28.41	92.48	
7051	62.10	22.11	105.49	19.48	92.48	
18749	115.18	42.04		33.94	92.39	

NYARITE SIE	CIDOFOVIR	no destinations	Ally, Do	eket No. 4	4921-5039WO
Himepoint	((s)): 1120 lars	1 1	11 -	Doc. (	<b>No. 1798397.</b> 1
ldentifer	NonToxMean	NonToxSD	ToxMean	ToxSD	LDAScore
18609	203.96	70.15	541.22	19.78	99.70
20674	83.03	121.84	203.76	122.76	199.61
4312	76.73	135.26	365.78	59.40	99.57
24041	12.84	32.48	31.93	0.33	99.53
5733	10.73	30.54	617.55	122.19	99.44
2768	1962.14	417.45	933.17	95.15	99.32
2410	11.13	10.13	64.03	113.02	99.32
14289	62.53	119.54	95.56	0.76	199.27
5689	12.82	19.88	85.25	13.41	99.23
14594	-17.87	24.41	86.07	17.70	99.23
24000	64.13	33.98	1157.59	7.48	99.19
8027	0.11	26.38	29.41	3.47	99.19
18322	2666.91	812.51	1165.22	99.03	99.06
7324	97.12	49.43	271.43	20.08	99.06
20903	70.06	46.59	288.96	29.37	99.06
20757	410.75	211.87	1571.32	228.32	98.97
1599	22.63	26.70	62.22	8.06	98.97
5183	215.17	70.24	445.78	24.68	98.97
4856	122.81	48.54	241.75	6.99	98.97
2655	42.27	39.82	529.96	152.39	98.97
10167	189.75	100.26	305.25	11.81	98.97
	225.36	80.40	666.87	94.23	98.93
22722	73.37	39.40	290.14	53.00	98.93
20082	75.76	32.27	258.55	44.96	98.93
912	474.15	83.63	764.00	33.56	98.84
8002	13 99	15.79	47.18	14.09	98.84
13158	463.87	106.89	360.87	1.60	98.80
	41.90	30.39	92.98	6.46	98.76
	332.45	146.31	611.55	14.40	98.67
	1097.88	255.30	605.30	42.31	98.63
	145.36	116.99	986.50	562.94	98.63
	14.61	16.79	37.95	1.52	98.63
	44.38	66.08	114.35	13.26	98.63
	454.53	109.40	1132.56	152.81	98.59
	240.24	60.23	98.11	9.83	98.59
		82.27	692.16	77.33	98.59
		70.54	454.10	35.35	98.54
	117.80	381.49	136.30	8.26	98.54
		87.65	653.31	318.06	98.54
	222.75	194.18	580.89	50.39	98.54
		33.75	158.07		98.50
		68.59	-11.79		98.50
		31.92	56.08		98.50
		170.18	328.03		98.50
		29.60	148.46		98.46
		39.29	55.82		
		82.24	10.71		98.37 98.37
		179.55			
		103.32	250.16		98.37
			368.64		98.37
			172.83		98.37
			829.66		98.37
			193.22		98.33
			127.47		98.24
			2144.64		98.24
6150	780.06	534.26	32.24	49.38	98.24

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llimepoin	: CLDOFOVIR ((s)): 120 hrs	2	Doc. No. 1798397		
	NonToxMean	NonToxSD	ToxiMean	ToxSD	LDAScore
3916	737.83	188.48	383.68	38.35	98.24
5839	5.98	20.99	59.41	8.18	98.16
26084	113.22	92.96	448.40	70.70	198.16
21654	362.77	114.65	543.47	30.13	98.12
26119	124.48	46.50	204.85	19.09	198.12
17314	6.10	12.64	43.93	7.10	98.07
353	173.67	81.62	475.77	74.64	98.07
16756	177.77	153.62	345.26	28.00	98.07
11437	555.26	125.28	290.62	37.25	98.07
24433	35.92	17.39	77.13	14.05	98.03
5464	225.07	67.79	427.11	46.05	97.99
15416	49.65	120.05	91.41	3.94	97.99
21948	203.26	65.91	33.57	32.91	97.99
18361	460.95	1159.60	865.38	68.10	97.95
4049	22.90	64.75	174.30	49.09	97.90
6765	788.37	204.50	462.53	19.06	97.90
17401	910.82	424.91	1651.59	134.17	97.90
20830	519.62	176.96	850.57	34.74	97.86
12908	40.69	40.63	135.60	42.31	97.86
19762	4.99	10.67	25.14	2.42	97.82
20457	382.89	90.62	215.96	13.41	97.82
5430	136.50	60.64	401.60	97.31	97.82
15300	137.15	130.99	496.58	1110.00	97.73
11259	107.70	137.96	508.22	165.85	97.73
3808	168.07	57.61	297.97	55.59	97.73
22050	3164.11	929.00	1779.72	124.06	97.73
4451	290.06	65.29	164.79	13.86	97.73
16170	38.98	26.45	97.44	18.88	197.69
13332	420.04	95.61	169.12	30.12	197.69
15861	460.82	148.89	174.40	29.65	197.69
5606	251.17	124.12	178.93	1.98	97.65
19370	308.88	74.48	551.57	63.31	97.65
3874	883.32	205.24	530.31	28.27	97.65
20991	224.15		195.44	2.64	97.60
18811	46.63		80.60	1.75	97.60
5881	103.14		184.15	16.55	97.60
354	214.95		490.19	69.08	97.56
11454	238.74		470.27	65.91	97.56
2873	122.01		366.63	64.37	97.56
20829	813.56		1539.75	129.65	97.56
7807	753.81		1314.67	146.81	97.56
3585	289.56		190.91	6.78	
3215	1680.14		881.26	110.65	97.56 97.56
14763	38.37	132.57	554.64	221.30	97.52

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		CISPAN combined			Ally. Docket No. 44921-5039W			
	isi): 6, 24 lims		1 16.		XIO. 1798397.1			
dendijer	MonToxMean	NonTexSD	ToxMean	TexSD	LDAScore			
8990	276.73	75.18	522.76	68.28	96.93			
1460	198.36	85.83	320.23	42.90	95.60			
16853	67.12	22.69	1121.67	21.69	95.08			
13239	108.86	47.65	222.86	33.91	94.73			
21355	373.47	117.15	627.82	192.43	94.69			
6454	238.70	77.20	419.87	47.88	194.69			
1247	1313.77	499.48	559.96	117.97	194.56			
6506	233.04	59.13	375.55	54.15	94.34			
1585	67.19	32.77	140.57	23.52	94.26			
1962	33.04	26.70	76.49	111.48	94.17			
18433	18.64	45.96	123.81	42.15	94.13			
15050	638.79	181.52	459.28	26.53	94.04			
17693	1261.20	375.03	651.01	91.79	93.87			
4956	78.53	37.78	1155.47	25.21	93.65			
16233	68.67	88.34	117.42	12.47	93.18			
11445	435.55	103.48	642.14	86.21	92.62			
8004	125.10	43.16	255.80	43.43	192.37			
1811	10.62	25.84	83.04	26.96	92.28			
1542	929.09	263.76	560.16	66.12	91.97			
16591	151.89	47.44	236.90	29.21	91.84			
18694	52.90	48.32	176.24	47.08	91.68			
11524	-14.63	124.06	46.43	29.33	91.59			
19080	75.03	55.99	212.58	72.04	91.20			
20514	83.88	26.10	127.69	12.79	91.19			
15701	37.45	16.42	79.72	13.34	91.16			
16122	116.73	39.95	217.85	62.09	90.99			
2079	303.23	81.83	406.18	33.43	90.98			
19327	88.79	28.83	152.22	21.27	90.86			
335	95.54	44.88	191.73	23.12	90.86			
14003	817.87	211.94	491.17	61.11	90.86			
9104	138.43	38.55	221.59	41.76	90.69			
25253	291.50	63.92	430.49	54.59	90.69			
23322	1169.44	284.23	807.96	73.20	90.67			
24696	68.34	46.61	180.46	53.14	90.60			
1552	71.02	83.66	121.56	15.30	90.54			
19120	31.87	24.91	90.61	26.26	90.51			
17411	78.54	53.72	189.16	45.14	90.51			
16121	109.00	58.08	258.63	87.07	90.47			
639	96.38	22.51	149.03	17.77	90.43			
1622	2080.70	896.54	796.36	153.89	90.41			
882	487.60	181.11	245.48		90.41			
23852	261.73	101.88	487.29	97.17	90.38			
3684	465.64	134.08	778.77	108.34	90.38			
857	51.80	45.32	150.23	38.24	90.38			
281	232.74	67.04	343.63	49.82	90.34			
5790	45.82	25.45	87.17	18.57	90.24			
23884	40.55	32.64	101.67	19.55	90.21			
7682	673.97	178.07	455.67		90.16			
6581	39.15	19.04	83.46	15.21	90.12			
4390	161.41	112.42	367.16		90.08			
886	57.66	28.30	124.53		90.08			
3682	176.78	61.74		50.60	90.04			
262	1113.30	393.42		245.81	90.00			
1954	3158.62	1682.02	952.13	425.90	89.98			
118	4151.32	2802.74	902.92		89.94			

Timenoing	CISPAN combin lsh: G. 24 lins	(6) 17 Table	100	ി മെറ്റി	Jo. 1793397.
(dentifier			ToxMen	ToxSD	LDAScore
819	3116.95	1659.72	1925.18	255.80	189.90
16211	2269.84	1132.19	853.70	212.63	89.90
1521	20.42	50.86	117.89	40.21	189.78
23125	4625.10	2534.40	1935.15	332.35	89.77
9109	1022.92	338.20	736.62	48.42	89.77
10141	53.73	45.97	150.14	52.96	189.69
152	72.28	26.46	108.76	14.84	89.68
17154	198.73	57.61	281.13	33.91	89.59
6362	62.35	38.95	146.74	29.87	89.56
10540	19.51	18.83	64.08	25.25	89.52
651	12.58	12.76	33.89	111.18	89.52
17086	151.38	43.21	214.56	21.12	89.51
12020	167.06	60.45	260.26	34.23	89.51
4121	62.05	23.29	113.40	19.65	89.43
8211	2875.40	1605.55	956.21	247.45	89.38
20404	53.25	45.78	130.86	32.28	89.35
7522		18.74	75.54	18.10	89.30
20879		50.13	179.14	40.07	89.26
17550		366.65	860.58	175.55	89.25
21950		149.84	534.23		89.21
25405		28.49	139.55		89.17
14125		49.56	229.81	40.28	89.17
1611		23.65	52.29		89.13
21685		42.72	207.33		89.13
17524		284.08	761.61		89.09
10611		27.29	104.61		89.06
22849		50.25	298.83		89.00
1608			56.08		89.00
1312			172.28		88.97
396			84.98		88.92
20871			108.86		88.92
0344			62.29		88.83
5587			66.30		88.82
9096			2697.48		88.82
290			144.64		88.79
4143					88.74
2174					88.74
7336					88.74
25257					88.74
0350					88.70
1335					88.64
4146					88.63
6254					88.61
0876					88.60
312					88.58

TABLE 5K	CUSPLATIN (s): 163 hts	1000年100	AMy. Doc	iket No. 4 Doc.	4921-5039WC No. 1793397.1
Identifier		NonToxSD	ToxMean		LIDASgore
14458	36.84	28.40	100.33	0.26	99.96
22385	106.64	51.70	1345.64	8.69	99.87
11731	43.29	24.10	393.30	43.69	199.87
23745	201.94	65.06	823.60	110.42	199.83
12903	53.64	18.74	124.32	6.90	99.83
15503	124.27	37.32	319.29	21.43	99.79
8235	43.83	34.77	145.95	18.00	199.79
16756	1177.83	53.82	327.44	3.02	99.74
16119	115.30	15.19	84.22	6.17	99.74
11967	1725.18	546.07	289.45	25.19	99.74
3608	333.84	110.50	62.62	5.74	99.70
18729	19.92	29.07	174.49	19.16	
5891	-53.03	47.69	106.02	18.28	99.61
2048	31.69	20.74	125.19	16.43	99.61
4490	176.73	72.26			99.61
1743	129.35	16.21	462.55	50.86	99.61
1584	1162.19	143.70	72.89	1.22	99.61
16137			307.85	8.25	99.57
	6.75	397.82	87.49	8.36	99.53
23778	68.99	34.04	179.58	9.21	99.53
23261	1568.96	389.70	925.80	13.87	99.53
808	468.33	143.61	160.94	9.90	99.53
1962	33.33	26.74	101.07	4.72	99.53
21789	34.67	30.58	177.40	21.84	99.53
23769	-6.24	8.69	33.99	6.30	99.53
23070	125.37	31.23	218.44	4.95	99.49
12400	13.19	10.48	74.60	111.18	99.49
16676	38.33	26.96	110.79	5.32	99.49
23780	25.07	35.93	95.20	12.81	99.44
25545	94.29	48.16	306.94	34.66	99.44
15254	209.66	67.16	447.21	21.22	99.44
23992	5.39	7.25	34.45	3.17	99.44
14430	34.19	31.78	125.29	8.54	99.40
11969	96.84	38.48	303.71	38.83	99.40
4312	77.16	37.99	241.97	24.41	99.40
4967	33.46	19.94	94.30	3.72	99.36
2079	303.69	81.26	527.92	20.78	99.32
22816	23.12	15.17	89.33	8.69	99.32
3609	407.50	148.70	67.97	9.33	99.32
361	90.16	30.77	193.28	10.19	99.32
13682	177.74	62.54	333.83	4.20	99.32
5504	129.02	50.62	447.33	63.50	99.27
333	271.13	101.41	110.07	15.08	99.27
21183	22.62	26.03	134.40	19.53	99.27
4222	101.20	52.50	460.48	61.63	99.27
548	63.06	30.22	6.09	1.52	99.27
4301	109.26	35.74	248.67	13.48	99.27
8442	38.61	17.15	99.87	5.14	99.27
4370	32.54	45.58		11.25	99.23
1500	80.36	76.69		73.44	99.23
4211	148.45	87.73		49.74	99.23
70	798.02	219.52		33.80	99.23
1791	84.31				
4651				24.88	99.23
7897				12.02	99.23
0890				3.84	99.23
12					99.19
14	1.36	9.08	60.25	14.12	99.19

-402-								
TABLE 5	K: CISPLATIN	FREST IN	Atty, Doo	tetino. 4	4921-503			
	Ms): 103 hrs	arr. 3		Dog. 1	No. 17989			
lidentifier	NonToxMean	NontoxSD.	ToxMean	Toxsd	LDASco			
18553	54.23	33.42	166.80	12.30	99.19			
15884	183.00	57.89	383.85	123.01	199.19			
19722	168.71	55.03	336.25	15.95	99.19			
17481	26.11	28.66	137.39	13.89	199.19			
5733	12.25	46.24	172.15	34.99	99.19			
4895	232.18	95.74	44.77	18.48	99.14			
15151	153.83	39.15	302.83	29.57	99.14			
14759	21.72	15.86	78.25	9.50	199.14			
15039	272.18	79.33	101.53	6.80	99.14			
12782	20.00	43.24	135.93	6.16	99.14			
23121	19.80	13.92	60.40	2.66	99.14			
26292	22.82	12.83	85.01	111.49	199.14			
2154	59.03	121.05	244.16	33.75	199.14			
21583	125.87	40.62	270.04	27.65	199.14			
3006	26.57	35.44	81.75	9.18	199.10			
1203	5.08	18.58	86.62	14.26	199.10			
24472	234.56	47.65	380.85	13.16	199.10			
5729	87.49	38.35	274.95	40.90	99.10			
132	-24.93	23.56	50.93	12.76	199.10			
1801	97.64	29.41	197.50	14.44	99.10			
1993	30.09	21.86	117.89	9.03	199.10			
16675	33.74	34.04	112.81	11.29	199.10			
1382	57.80	21.22	127.59	5.60	99.10			
17586	115.18	35.27	246.61	21.48	199.06			
21666	22.81	17.92	87.38	6.42	199.06			
2125	76.55	80.69	345.60	72.31	99.06			
21709	142.70	29.95	215.46	6.19	99.06			
16538	132.96	36.43	245.73	9.25	99.06			
2845	667.61	123.51	1098.14	42.15	99.02			
753	42.04	16.33	120.03	23.17	99.02			
21893	50.92	33.48	203.93	25.50	99.02			
21836	29.24	16.81	91.95	8.44	99.02			
21817	10.63	13.30	59.28	7.00	99.02			
5517		156.64	721.49	128.57	99.02			
588		22.15	122.71	6.97	99.02			
14564		23.27	104.89	3.20	99.02			
3079		46.77	152.78	26.18	98.97			
602			364.34	31.12	98.97			
20816			774.42	37.69	98.97			
322			122.95	22.89	98.97			
7337			253.28	6.67	98.97			
8161			244.42	22.79	98.97			
057			139.42	12.02	98.97			
2552	314.43	92.85	696.18	70.05	98.93			

	CISPLATIN		Alily, Do	Docket No. 44921-503900		
	((s)): 0, 24 hrs				No. 1798397.	
identifier	NonTexMean	NouTexSD	ToxiMean	ToxSD	LLDAScore	
20082	75.47	31.84	228.60	43.28	98.84	
1598	47.75	56.92	133.89	25.63	98.58	
15313	11.08	24.34	53.59	5.89	98.54	
2655	43.13	48.31	177.30	66.12	98.20	
14424	66.72	130.96	272.03	63.86	97.85	
17314	5.89	11.89	63.70	27.83	97.85	
21275	225.06	80.71	528.11	144.80	97.68	
4047	85.85	50.33	190.04	23.02	97.60	
20116	9.55	31.45	124.39	50.70	97.38	
15382	122.93	203.50	341.43	85.17	97.34	
1521	20.82	51.01	148.25	24.41	97.30	
24146	220.17	51.83	396.31	40.61	97.30	
8990	278.10	77.14	540.97	69.47	97.21	
1884	178.33	37.79	272.14	]18.27	]97.17	
4933	134.55	205.15	335.87	89.54	97.04	
6506	233.65	59.50	415.92	45.52	197.04	
4944	112.31	56.05	264.36	39.37	96.95	
8004	125.79	44.06	271.11	40.68	96.95	
1993	30.02	21.93	91.88	19.85	96.91	
20506	21.57	7.97	46.99	7.30	96.82	
21462	257.92	58.72	424.63	52.75	96.78	
6974 11549	129.50	46.90	236.12	28.32	96.78	
	243.07	64.12	425.53	38.72	96.74	
2905	245.79	107.78	488.69	56.33	96.74	
1811 10839	10.99 313.60	26.26	94.19	25.01	96.70	
2468	252.35	67.83 62.46	533.54	83.77	96.70	
373	33.94	61.41	433.73 162.88	70.78	96.61	
19040	186.25	107.25	258.19	51.32 19.20	96.57	
15299	87.98	61.10	206.62	59.64	96.57	
13684	467.21	135.45	831.58	69.76	96.57 96.52	
910	57.76	21.93	136.53	45.93	96.35	
4477	11.91	8.60	37.00	7.79	96.27	
20871	52.68	25.99	122.97		96.22	
16853		22.84	136.28	21.27	96.18	
23473		56.94	338.21	73.37	96.18	
		124.60	585.25	20.89	96.14	
		77.80	340.64	28.00	96.14	
		48.91	198.02	43.87	96.09	
		27.58	129.79	27.84	96.09	
		28.16	198.57		96.05	
23314			498.55		96.05	
551	12.67		40.79		95.97	
3266			247.88		95.97	
460	198.97	85.95	340.15	49.64	95.97	
20065	86.81	30.90	170.50	27.85	95.97	
	38.37	68.10	96.58		95.92	
		101.84	327.19	44.52	95.92	
			63.65		95.88	
					95.88	
			139.71	61.60	95.79	
			160.35		95.75	
		212.81			95.67	
		88.22			95.62	
			127.67		95.54	
5345	201.66	67.69	322.91	40.01	95.45	

	al: Cisplatin		. Ally, Do		4921-5039W
	n((s)): 0,24 hrs	Man and an	-		No. 1798397
ldentitie			ToxMean	ToxSD ,	LIDAScore
22849	197.75	50.59	318.11	30.11	195.41
23868	178.04	289.84	277.77	47.26	95.41
16233	68.93	88.14	1123.52	111.88	195.36
6454	239.80	78.37	418.57	35.68	95.36
21061	58.86	27.77	128.21	17.87	95.36
24143	193.56	97.20	413.12	53.39	95.32
15296	137.87	56.84	269.21	33.23	95.32
22374	148.45	41.20	247.50	28.04	95.28
13239	109.46	48.17	236.67	36.75	95.28
8768	64.97	26.90	1141.33	30.56	95.28
1542	927.15	264.15	512.83	50.15	95.28
22352	156.66	103.69	254.35	25.00	95.24
14051	133.17	35.29	219.32	28.80	95.24
9343	189.65	67.21	349.25	44.44	195.24
1247	1309.30	501.39	1550.55	103.22	95.19
7857	52.35	45.86	156.83	28.07	95.19
11727	230.50	78.02	409.08	59.02	95.19
1639	96.67	22.79	153.44	17.91	95.11
15374	138.74	36.97	231.57	31.99	95.02
3899	141.45	61.33	242.19	14.71	94.98
25405	78.08	28.73	149.92	18.38	94.98
23872	49.59	92.93	101.10	24.53	94.98
24368	244.08	80.76	439.99	52.18	94.98
10818	465.48	185.96	140.29	49.38	94.98
17693		376.37	596.02	96.76	94.98
25253	292.22	64.49	449.51	58.18	94.89
11708	319.92	92.39	486.60	46.21	94.89
17908	63.14	60.90	124.23	27.40	94.89
24028	407.75	96.21	644.04	67.17	94.85
11455	115.78	48.10	202.56	32.14	94.85
20870	19.10	29.21	92.31		94.81
3931	94.55	29.06	155.45		94.68
3581	76.02		132.63		94.68
1447	208.86	37.67	272.57		94.64
22501			383.79		94.64
10720	1153.08	43.55	217.97		94.64
20591			68.79		94.59
292	62.12				94.55
1355			635.77		94.51
23852					94.51
8689					94.51
426					94.51
3563					94.46

Identifier	242.48 277.44 52.37 10.74 11.83 35.57 67.12 132.70	NoniexSD 50.42 37.40 26.94 48.08 66.86 63.43 76.38 38.73 25.96 8.50 50.18	Affy, Docka  TexMean 17   152,11   272,66   134,66   203,55   524,22   420,82   515,35   167,05   89,58   36,45	Doc. 10xSD 27.16 21.76 25.22 35.96 78.99 36.27 72.77 23.05	Mo. 1798397.1
1521   1884   1884   16284   4 18694   18694   18694   18694   17694   17694   17694   17694   17694   17695	20.35 178.00 40.57 52.96 312.93 242.48 277.44 52.37 10.74 11.83 55.57 57.12 1332.70 466.14	50.42 37.40 26.94 48.08 66.86 63.43 76.38 38.73 25.96 8.50 50.18	152.11 272.66 134.66 203.55 524.22 420.82 515.35 167.05 89.58	27.16 21.76 25.22 35.96 78.99 36.27 72.77 23.05	97.37 97.03 96.99 96.77 96.77 96.73 96.60
1521   1884   1884   16284   4 18694   18694   18694   18694   17694   17694   17694   17694   17694   17695	20.35 178.00 40.57 52.96 312.93 242.48 277.44 52.37 10.74 11.83 55.57 57.12 1332.70 466.14	50.42 37.40 26.94 48.08 66.86 63.43 76.38 38.73 25.96 8.50 50.18	152.11 272.66 134.66 203.55 524.22 420.82 515.35 167.05 89.58	27.16 21.76 25.22 35.96 78.99 36.27 72.77 23.05	97.37 97.03 96.99 96.77 96.77 96.73
1884 1 16284 4 18694 5 18894 5 10839 1 11549 2 8990 6 6362 6 1811 1 4477 1 4477 1 16853 6 3266 1 3266 1 3268 1 13684 4 2905 2 1460 2 1460 1 23314 6 17693 1	178.00 40.57 52.96 512.93 512.93 5242.48 52.37 10.74 11.83 55.57 57.12 132.70	37.40 26.94 48.08 66.86 63.43 76.38 38.73 25.96 8.50 50.18	272.66 134.66 203.55 524.22 420.82 515.35 167.05 89.58	21.76 25.22 35.96 78.99 36.27 72.77 23.05	97.03 96.99 96.77 96.77 96.73
16284   18694   18694   18694   18694   18694   18694   18794	40.57 52.96 512.93 312.93 242.48 277.44 52.37 10.74 11.83 55.57 57.12 132.70 466.14	26.94 48.08 66.86 63.43 76.38 38.73 25.96 8.50 50.18	134.66 203.55 524.22 420.82 515.35 167.05 89.58	25.22 35.96 78.99 36.27 72.77 23.05	96.99 96.77 96.77 96.73 96.60
18694   10839   11549   10839   11549   20839	52.96 312.93 242.48 277.44 52.37 10.74 11.83 85.57 77.12 132.70	48.08 66.86 63.43 76.38 38.73 25.96 8.50 50.18	203.55 524.22 420.82 515.35 167.05 89.58	35.96 78.99 36.27 72.77 23.05	96.77 96.77 96.73 96.60
10839 11549 28990 2 6362 6362 6362 6477 16853 6286 113684 42905 22314 66717693 1158301 23314 67158301 23314 67158301 23314 67158301 23314 67158301 23314	312.93 242.48 277.44 52.37 10.74 11.83 35.57 67.12 132.70	66.86 63.43 76.38 38.73 25.96 8.50 50.18	524.22 420.82 515.35 167.05 89.58	78.99 36.27 72.77 23.05	96.77 96.73 96.60
8990 2 6362 6 1811 4477 1 4047 8 16853 3 3266 1 13684 4 2905 2 1460 1 23314 6 17693 1 15301 3	277.44 52.37 10.74 11.83 55.57 57.12 132.70 466.14	76.38 38.73 25.96 8.50 50.18	420.82 515.35 167.05 89.58	36.27 72.77 23.05	96.73 96.60
6362 6 1811 1 44477 1 4047 8 16853 6 3266 1 13684 4 2905 2 1460 1 23314 6 17693 1 15301 3	52.37 10.74 11.83 35.57 67.12 132.70	38.73 25.96 8.50 50.18	515.35 167.05 89.58	72.77 23.05	96.60
1811 1 4477 1 4047 8 16853 6 3266 1 13684 4 2905 2 1460 1 17693 1 15301 3 3	10.74 11.83 85.57 67.12 132.70 466.14	25.96 8.50 50.18	89.58		06 60
4477 1 4047 8 16853 6 3266 1 13684 4 2905 2 1460 1 23314 1 17693 1	11.83 85.57 67.12 132.70 466.14	8.50 50.18		AT AS	
4047	35.57 57.12 132.70 466.14	50.18	26 45	21.97	96.60
16853 6 3266 1 13684 4 2905 2 1460 1 23314 6 17693 1	67.12 132.70 466.14			6.35	96.55
3266 1 13684 4 2905 2 1460 1 23314 6 17693 1	132.70 466.14		181.03	26.48	96.55
13684 4 2905 2 1460 1 23314 6 17693 1	466.14	22.50	136.44	18.16	96.55
2905 2 1460 1 23314 6 17693 1		35.81	249.33	37.38	96.47
1460 1 23314 6 17693 1 15301 3		134.44	811.93	63.86	96.47
23314 6 17693 1 15301 3		105.83	525.71	99.02	96.43
17693 1 15301 3		85.75	335.50	43.05	96.38
15301		274.82	477.84	185.93	]96.25
		374.54	570.60	88.76	196.21
17894 [4		68.12	96.20	20.88	96.12
10015		18.63	103.03	28.25	96.08
		76.52	389.17	82.89	95.99
		106.97	292.78	52.89	95.95
		27.96	193.24	20.67	195.74
		38.25	311.48	25.65	95.74
		45.46 77.72	159.10 421.14	25.13	95.65
		55.52	295.99	34.72 61.04	95.65 195.56
		184.46	97.87	70.28	95.52
		101.45	536.68	85.55	95.52
		263.36	505.79	51.94	95.48
		27.65		11.38	95.31
			486.71	136.84	95.31
		61.56		46.83	95.26
		211.66			95.26
12478 8					95.22
1585	7.31	32.78		23.18	95.22
		37.72			95.13
	77.77	290.29			95.09
	5.06	22.48	69.25	11.11	95.05
				153.95	95.00
				32.67	94.88
		29.09			94.88
					94.83
					94.83
					94.70
					94.53
					94.44
					94.36
					94.32
					94.23
					94.19
					94.19
					94.08 94.01
		9.99	208.45	29.46	

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Timenoint	I: CISPLATIN (s)): 6, 24, 163 hr	S. Millian	Alty. Docket No. 44921-5039W Doc. No. 1793		
ldentiter	NonToxMean		ToxMean		LDAScore
10344	22.23	21.56	63.33	19.18	93.84
15386	193.23	1133.87	380.59	1101.27	193.76
9882	486.99	181.36	244.23	35.18	93.76
4443	259.36	71.87	429.91	75.00	93.76
16080	44.85	252.23	176.73	162.58	93.76
22005	63.42	50.09	187.23	39.58	93.71
15313	10.94	24.26	52.72	17.91	193.65
6384	60.76	59.71	117.04	26.05	93.63
15701	37.60	16.66	75.18	112.81	93.58
22257	33.56	15.61	61.03	17.13	93.54
2655	42.88	48.17	1155.13	62.85	93.52
4198	698.17	161.70	448.59	56.51	93.50
6522	569.21	150.95	877.20	1111.47	93.28
19128	1112.63	38.66	180.82	19.01	93.15
17314	15.74	111.53	57.89	29.34	93.13
22871	101.59	29.83	165.82	22.84	93.11
21275	224.35	79.76	492.77	134.59	93.09
1727	43.38	60.84	96.90	23.97	93.07
19249	264.62	60.02	356.76	20.60	93.07
1993	29.72	21.35	101.33	20.81	93.04
4584	82.33	29.05	125.60	12.25	92.98
24162	523.84	1133.30	788.13	185.20	92.94
7522	31.71	18.92	74.24	15.00	92.89
17713	134.82	29.04	1191.13	21.86	92.85
1428	-7.27	15.96	40.03	16.58	92.83
14776	99.41	35.18	153.67	26.50	92.81
3418	333.44	86.68	495.74	46.58	92.81
4199	529.94	132.34	301.96	161.95	92.64
21685	123.15	42.92	207.52	32.56	92.64
7023	363.44	76.61	483.68	29.43	92.55
4420	40.76	32.16	92.81	27.98	92.48
4121	62.21	23.49	110.83	118.20	92.42
18995	161.31	23.53	109.28	20.56	92.42
14665	151.38	37.30	219.57	123.41	92.33
11404	134.16	54.82	304.44	53.63	92.14
910	57.47	21.40	138.17	36.81	92.10
24081	117.08	163.79	235.77	50.20	92.03
22351	45.44	32.53	86.73	20.28	91.99
16012	72.47	31.00	153.59	33.17	91.97
22211	766.80	164.47	1061.59	90.34	91.95
727	210.80	38.94	274.04	15.91	91.90
9104	138.35	38.03	253.38	40.14	91.88
0417	43.82	25.97	125.71	32.61	91.88
0611	10.74	27.42	115.20	49.23	91.84
314	262.03	49.07	394.88	48.07	91.79

	CHAININ		Alby, Do		1921-5039W
Ulimepoint	(s): 6, 24 hrs	101- St. OD	TE3 00W	DOG. [	<b>Vo. 179339</b> 7.1
	NonToxMean				
17541	622.47	209.71	2524.98	697.44	98.92
6108	533.46	112.70	1024.58	102.59	98.62
25064	962.08	317.37	2651.31	379.95	98.58
1698	70.27	55.64	598.98	232.89	98.49
8820	130.72	105.90	755.03	221.60	98.41
23917	725.54	174.69	1782.62	536.25	98.36
20817	1043.62	545.12	5020.35	2088.07	98.32
15391	756.64	170.28	1510.23	272.65	98.24
20864	1562.02	620.45	4051.37	596.98	98.19
24192	70.11	37.23	212.99	53.54	97.93
20818	665.29	354.08	2965.76	1254.63	97.93
1340	192.34	49.85	114.30	11.66	97.76
20035	180.50	107.18	446.34	61.98	97.72
25525	1057.73	339.31	2228.58	326.32	97.55
18989	782.09	261.73	1560.14	205.30	97.46
3431	1496.13	608.90	3517.88	499.00	97.42
13723	734.46	282.33	1643.16	339.11	97.29
353	173.42	82.57	323.18	43.00	97.25
15848	1318.65	418.94	2622.73	442.07	97.16
634	1135.42	374.65	2281.52	441.32	96.86
354	214.25	93.76	406.34	75.12	96.77
7681	101.15	43.91	212.89	41.46	96.64
13610	357.22	70.16	213.99	29.24	96.56
5601	970.57	259.22	473.69	102.75	96.47
3876	30.44	14.34	1.17	8.63	96.13
24375	115.03	40.98	208.88	57.88	96.04
3212	2232.57	1104.98	5289.94	717.26	95.96
15106	1878.08	698.66	3540.36	359.29	95.74
14670	1214.56	325.29	1917.56	318.04	95.70
15189	1735.59	1153.61	4557.38	1226.17	
24496	122.73	40.31	47.99	15.89	95.70
	332.13	100.81	137.61	37.56	95.57
20876	1661.97	599.79	3113.86		95.52
	35.68	17.84	5.09	382.39	95.52
630		256.89		4.52	95.52
	1393.25		913.59	112.68	95.48
	837.88	286.57	1606.81	216.13	95.44
	1209.74	343.26	2046.05		95.44
	-13.72	19.65	37.49		95.44
	247.89	49.11	157.69		95.44
	443.12	132.07	716.96		95.31
	245.00	113.72	546.56		95.22
	2822.70	1582.68	6312.46		95.22
	42.34	13.79	13.06		95.22
	2209.11	1246.61	5017.03		95.14
	1803.71	1156.33	4453.59		95.09
	1480.71	527.22	2864.67	616.92	95.09
	277.90	58.81	408.93		95.09
		243.62	1623.72	219.27	95.05
		44.77	132.90	13.45	95.01
		35.74	68.61	13.81	94.84
			171.76		94.84
586	795.05		401.14		94.79
					94.79
			1130.86		94.75
					94.75
					94.71

TABLE 5N: CITRININ Atty. Dockst No. 44921-5089 Timapoint(s): 6, 24 ins Doc. No. 17933								
Identifier	NoniroxMean	NonToxSD	Tox(Mean					
22773	230.97	52.31	131.59	26.18	94.54			
1651	880.31	240.55	631.98	31.80	94.19			
17494	219.24	41.89	138.20	23.13	94.15			
244	51.19	35.18	14.03	8.20	94.15			
17693	1247.25	372.94	2027.18	231.36	94.10			
6946	389.05	103.41	200.78	37.64	94.02			
23783	436.13	76.56	1298.50	28.57	193.93			
19408	1997.30	674.69	2937.88	1154.93	93.89			
20088	383.97	79.45	244.56	32.48	93.89			
16272	192.25	63.76	102.37	22.94	93.89			
2866	642.47	211.99	276.00	84.07	193.85			
16954	48.70	79.17	202.92	44.32	93.80			
21685	124.50	43.36	59.69	10.37	93.72			
1719	145.21	38.11	80.93	12.30	93.67			
20810	1256.69	398.25	2088.75	313.45	93.63			
5049	298.40	65.65	175.28	28.59	93.63			
1814	172.31	47.40	99.15	13.17	93.63			
16193	101.42	30.67	44.23	15.12	93.59			
15017	1007.41	395.69	2150.20	]484.37	93.58			
17686	1014.59	265.55	1558.32	151.72	93.50			
20803	432.89	100.25	912.31	140.76	93.49			
1537	29.21	35.65	294.59	185.42	93.45			
1399	198.89	71.28	576.63	288.99	93.45			
22583	26.67	14.48	3.43	7.60	93.37			
3091	784.77	186.23	457.77	105.80	93.37			
9029	430.46	93.52	614.72	63.36	93.37			
6849	114.53	44.11	44.12	13.14	93.33			
22414	58.52	33.14	101.78	22.01	93.33			
3283	122.89	43.92	338.56	122.17	93.32			
20918	440.21	126.29	269.42	29.15	]93.29			
25069	131.62	55.06	390.27	136.77	]93.28			
9067	175.20	51.04	88.87	21.48	93.24			
022	6.12	16.94	127.93	68.30	93.24			
23	32.80	15.28	8.05	5.98	93.20			
242	2295.34	607.45	1325.08	393.96	93.16			
24390	165.35	113.57	]-9.44	39.74	93.07			
7211	1434.51	548.50	2462.85	274.87	193.03			
22406	79.97	30.24	31.26	10.08	92.90			
24469	1169.56	333.98	1827.58	165.96	92.86			

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Timepoint	): Golchicine (s): 6,24,43 hr	3	Alty. Do		921-5039W 10. 1793337.
identifier	NonToxMean	NonToxSD	ToxMean		LDAScore
23166	132.81	58:53	371.64	112.54	97.29
4412	377.59	61.12	558.75	77.91	196.99
18151	11133.81	261.37	563.27	117.10	96.47
15964	1187.13	325.69	508.38	159.50	96.12
11618	419.37	129.59	119.80	80.64	96.12
16882	177.88	54.70	82.96	14.87	195.78
24321	722.16	202.93	318.04	123.60	195.43
9097	258.85	82.10	115.52	131.47	95.05
20001	1683.96	373.32	1059.37	114.06	94.92
16913	1386.59	297.09	894.57	81.02	94.75
17887	1461.63	317.71	838.24	208.19	194.70
16924	445.74	155.90	188.36	46.16	94.57
20988	1221.44	211.78	853.97	84.52	94.49
22271	275.62	66.08	156.87	37.40	94.32
2222	802.84	200.86	537.76	35.92	94.06
6806	1236.90	342.77	566.10	189.93	94.00
13855	22.06	28.83	139.05	42.55	93.95
20513	57.97	25.96	166.84	71.44	93.82
9296	1306.96	257.77	840.48	105.26	93.80
343	62.16	32.97	14.32	5.63	93.71
16982	128.17	257.40	1462.72	552.54	93.60
20312	405.72	95.10	209.02	92.75	93.58
1073	562.17	184.40	230.54	83.32	93.58
3925	477.10	119.06	265.65	66.28	93.45
2913	736.68	160.48	481.77	40.00	93.24
0984	2020.41	564.71	1032.75	348.86	92.98
2321	100.73	64.58	321.87	131.71	92.96
767	44.79	40.13	182.37	66.23	92.90
151	563.27	167.25	920.16	111.75	92.89
615	90.46	40.50	169.26		92.89
7399	1980.57	449:65	1255.63		92.64
552	1594.49	296.14	1077.60		92.64
3111	228.20	73.35	132.80		92.59
3727	124.04	53.37	38.71		92.55
8642	974.76	203.55	664.60		92.55
050	91.21	49.08	313.78		92.53
438	114.03	57.15	38.70		92.53 92.51
	33.56		132.47		92.51
	202.17		491.51		92.48
	114.55		48.23		92.46
	1626.70		1002.61		
	1421.26		931.95		92.42
	359.37		235.96		92.25
					92.25
	213.41				92.20
	774.27				92.18
					92.08
					92.03
		33.71			22.03
					91.79
					1.69
					1.58
					1.58
					1.56
					1.52
3110	570.61	171.16	295.42	91.28	1,47

-410-

Threpoint(s): 6, 24, 43 hrs Doc. No. 179  The UTTO NonToxMean NonToxSD ToxMean ToxSD LDAS							
roler (fffrer	NonToxMean	Monitors D	ToxMean	ToxSD	LDAScor		
11057	J32.46	28.53	120.72	43.20	191.41		
7537	230.23	69.42	125.41	29.85	91.34		
19822	1596.44	410.54	942.00	210.50	91.26		
17386	303.88	93.74	128.16	41.06	91.02		
17248	2568.34	534.75	1704.94	295.46	91.00		
15191	2013.99	1219.17	2599.48	219.23	90.96		
1141	240.56	63.32	390.27	85.33	90.93		
3099	966.22	189.19	660.01	95.36	90.70		
21024	577.99	113.27	331.56	66.79	90.59		
8709	148.12	48.57	78.15	19.09	90.57		
19731	226.36	215.21	198.99	29.40	90.57		
6250	492.94	104.90	372.14	23.59	90.53		
117	21.16	17.56	-5.10	19.54	90.44		
17401	907.31	422.79	1550.66	328.51	90.42		
15377	25.87	15.51	55.07	8.41	90.42		
17326	22.55	24.06	93.51	28.61	90.42		
22697	59.78	40.38	12.83	13.23	90.35		
14595	87.77	36.04	175.49	38.60	190.29		
9223	150.65	64.81	54.19	23.82	90.27		
3785	209.90	55.55	288.76	24.92	90.22		
9339	360.32	89.43	226.70	47.31	90.22		
23253	624.10	163.49	380.42	78.17	90.09		
25907	19.74	25.13	47.86	114.93	90.09		
15893	1733.99	343.83	1225.85	165.26	90.05		
23514	407.55	167.53	162.38	70.14	89.97		
3875	510.89	136.65	232.91	81.51	89.90		
106	362.17	77.76	250.18	48.87	89.88		
8343	437.98	107.72	280.49	46.68	89.79		
25461	49.71	22.92	20.96	5.68	89.75		
0789	326.18	107.75	117.23	67.68	89.73		
23145	44.09	20.22	187.09	15.12	89.73		
1048	1-7.14	26.09	121.21	153.77	89.66		
1174	53.20	50.67	171.90	46.40	89.64		
23709	2491.22	1205.88	2706.26	145.13	89.45		
23224	194.78	48.70	129.40	19.04	89.41		
1215	143.29	71.54	28.34	56.76	89.23		
9479	276.88	106.02	134.33	36.73	89.23		
5872	152.44	63.81	467.24	163.94	189.23		
0985	1146.00	265.29	1633.75	164.98	89.17		
8451	1444.75	418.00	943.24	132.82	89.10		
312	157.19	35.17	88.26	32.94	189.04		

FRAIRING GO.	CYCLOPHOSPH	AMIDE	AMAY I	Docket No. 4	AIO24E
Timepoint(s		Annuals .	6-300 A		No. 17
Identiner	Nonvoxwean	NonloxSD	IllioxMean	100330	
17089	11545.78	604.39	6128.97	1335.19	199.53
16081	1113.02	1372.25	1532.22	184.12	199.40
23619	327.35	96.06	660.24	21.96	99.32
5393	-31.45	22.77	27.35	5.29	99.32
24049	1517.02	1432.93	3280.45	348.50	199.10
22698	261.92	1112.70	1-415.61	188.19	99.06
26222	371.68	149.80	1265.79	372.61	98.76
18118	895.16	271.71	2268.31	1465.94	98.67
16469	1143.78	291.23	1083.34	3.98	98.67
17066	37.10	19.62	-6.41	5.49	98.67
7084	123.08	117.51	622.25	118.49	98.59
24213	1604.12	394.78	3341.49	503.25	98.54
3470	143.86	59.86	458.18	196.11	98.54
23711	4518.75	2192.54	16927.73	3240.54	198.50
18831	4165.13	1320.79	10676.69	1466.84	98.50
108	289.68	144.40	164.86	3.48	98.46
1409	425.27	87.17	260.86	8.34	198.46
8815	664.61	111.50	420.20	41.92	98.46
12130	90.83	34.97	39.25	3.30	98.42
8213	3583.64	1528.59	10080.02	1528.73	198.42
109	556.91	312.14	239.04	32.06	198.42
21637	28.01	19.25	-16.57	5.06	98.29
15819	42.77	22.12	-47.81	46.21	98.16
44	34.58	17.78	-3.41	3.04	98.16
6154	256.83	383.44	-1506.42	11100.74	198.12
13412	28.40	24.99	148.78	61.50	98.12
6720	68.84	60.28	240.34	21.68	98.12
5117	162.84	78.90	1364.60	35.27	198.07
5329	47.29	21.30	10.39	2.22	98.07
21866	109.05	73.32	379.42	172.12	98.03
14953	482.64	76.56	311.16	19.07	<b> 97.99</b>
18350	90.05	49.29	301.03	46.70	97.99
2029	305.29	103.47	350.85	2.68	97.99
8837	358.84	91.24	173.81	19.49	97.95
25721	83.34	54.43	240.21	44.54	97.95
16272	191.69	64.06	131.07	]3.08	97.95
5969	1516.76	347.22	2916.15	354.10	197.90
1689	4338.65	2126.09	15982.97	5400.06	97.90
4232	137.19	62.23	27.42	11.32	97.90
3049	202.76	101.21	529.19	69.46	97.86
18800	2711.70	1148.84	6417.82	556.95	97.86
14424	67.07	130.91	324.02	83.71	97.86
8849 25777	222.06	71.45	477.43	62.77	97.77
	404.46	182.63	824.09	1102.83	97.77
16902 23078	66.96	91.89	-172.67  55.48	27.28	97.77
23078 5461	147.27	46.50		8.60	97.77
24814	193.94 171.74	117.20	396.91 192.18	37.67	97.73
10860		33.51		13.93	97.73
	46.07	29.90	-6.09	2.93	97.69
1698 15408	74.37	76.29	197.25	24.89	97.69
15408	193.87 1948.88	58.16	69.92 5675.58	111.05	97.69
7127	1948.88	851.66 95.94	21.98	2032.21	97.65 97.65
744	334.35	68.28	208.28	111.29	
3081	387.30				97.60
18918	31,10	84.71 27.35	227.05 -32.80	31.49 110.09	97.56 97.56

			412-		
			412-		
	3P: CYCLOPHO	SPHAMIDE	Aithy	. Docket No	44921-5089W
	int(s): 6 hrs			Da	s, Mo. 17793397
Identifie		in   NonitoxSi	lloxivean	ിരുള്ള	<b>DUASCOTE</b>
15154	267.93	62.29	]131.15	21.56	197.52
17771	768.98	305.15	1490.79	130.43	97.52
20493	460.39	110.11	297.05	12.72	97.47
24437	68.49	25.43	175.35	41.14	197.47
8999	47.02	23.49	1.97	4.96	197.47
15382	122.71	202.12	570.78	188.00	97.47
8599	378.10	107.09	181.07	19.58	97.47
17682	672.30	178.35	399.02	29.34	97.43
22862	103.01	36.20	42.20	6.28	97.39
20920	626.34	183.56	421.78	111.19	197.39
17334	173.83	58.72	358.42	140.10	97.39
4067	123.98	59.95	245.14	32.72	97.39
17357	269.19	82.48	105.14	28.10	97.39
23314	72.17	276.94	318.28	105.05	97.35
19190	534.12	144.15	283.73	32.84	97.35
16943	2759.04	872.63	5041.36	392.40	97.35
16947	319.84	80.34	186.33	113,16	97.35
6405	380.95	93.60	241.49	111.37	97.35
9053	239.61	50.65	135.66	111.51	97.35
25253	293.63	65.17	155.93	16.09	97.30
1688	5256.94	3710.90	21624.32	7449.14	97.30
19993	2319.53	566.29	3763.82	221.97	97.30
20846	2377.64	663.94	3619.10	135.20	97.30
22142	32.37	17.29	0.24	3.37	97.26
17602	131.67	36.83	52.59	13.48	97.26
18274	300.34	63.28	159.26	25.71	97.26
5410	504.68	101.83	257.23	33.63	97.22
7299	181.01	153.33	372.36	39.71	97.22
5585	649.58	366.37	1390.92	91.78	97.17
7426	537.84	84.20	386.94	14.48	97.13
5190	1818.28	1175.28	4173.32	371.68	97.13
3598	349.78	108.22	755.01	165.06	197.09

PCT/US02/16173

Timepoint	: DIFLUNISAL (s): 24 hrs	<b>医体育学院士</b>	9. 1494	Doc.	No. 1793397.1
ldentifier	NonToxMean	NonToxSD	ToxiMean	ToxSD	LDAScore
15582	98.54	389.02	523.22	20.51	99.87
23699	325.81	88.09	984.09	67.68	99.79
1858	165.70	50.67	468.35	55.34	99.66
18687	415.65	168.60	1876.04	173.83	199.66
20810	1260.74	402.11	2154.96	30.08	99.44
23698	272.98	101.50	824.56	62.23	99.44
15906	73.43	105.60	328.56	63.09	99.40
21354	414.86	118.96	1273.64	189.63	99.36
16918	1181.89	410.28	2103.00	56.71	99.36
15048	861.35	213.04	1349.81	15.30	99.32
17758	126.22	53.45	567.25	114.93	99.14
23504	176.69	49.53	287.50	5.80	99.14
18686	468.60	214.77	2050.51	247.31	99.14
5351	711.19	145.06	979.89	15.97	99.06
18083	48.75	24.85	148.28	10.77	99.06
1977	142.19	40.33	293.78	26.17	98.97
20833	1254.24	350.22	1826.03	17.16	98.84
4012	650.38	267.26	1484.68	174.94	98.84
18250	1093.45	315.54	1684.15	30.30	98.80
26109	69.08	76.43	458.33	59.25	98.76
4049	23.28	65.36	63.64	6.15	98.76
23837	101.76	41.27	57.70	0.48	98.76
25679		261.02	1610.91	63.61	98.76
5887		88.10	285.80	15.29	98:63
23409		161.09	346.74	3.30	98.54
5380		123.74	459.26	82.61	98.54
		77.14	519.55	38.45	98.42
		177.74	1191.89	49.47	98.42
		235.09	1635.35	158.85	98.37
		115.84	189.18	29.09	98.33
		67.39	138.00	4.76	98.29
		44.40	66.30	1.36	98.20
			276.60	38.55	
		193.66	371.24	5.25	98.20
			2327.85	45.31	98.20
			2305.53	135.95	98.16
					98.16
			555.88	47.36	98.16
				360.66	98.12
				80.83	98.07
				6.55	98.03
				63.55	98.03
					97.99
				41.43	97.90
				10.15	97.90
					97.90
					97.86
					97.82
					97.77
					97.73
					97.73
				121.15	97.69
					97.65
					97.65
		37.85			97.60
952	108.82				97.60

Timepoin((s): 24 hrs Doc. No. 179839							
lden#ffer		NonTexSD	Toxillean :	ToxSD	LIDAScore		
1814	171.85	47.69	123.88	1.67	97.56		
20839	1043.73	290.47	1565.67	42.99	197.52		
16190	288.78	81.68	502.75	35.87	97.52		
15875	1183.10	392.02	1973.54	86.87	97.35		
16701	830.81	197.66	1528.91	267.69	197.35		
15106	1887.41	709.31	3311.08	123.87	97.26		
3434	326.00	140.86	131.21	15.66	97.26		
21729	582.55	246.48	1512.04	499.79	97.26		
19952	67.28	24.42	23.96	3.74	97.26		
20818	681.56	422.22	11663.94	317.99	97.17		
20149	1324.01	582.48	2795.60	215.42	97.17		
14959	619.74	147.94	11010.98	113.74	97.13		
16148	762.99	195.12	1313.23	188.91	97.13		
24886	1263.69	371.87	2046.76	132.13	197.13		
10878	952.87	253.83	1373.59	38.24	97.09		
8946	207.89	87.83	74.88	7.06	197.09		
19477	112.98	54.74	250.89	20.66	97.00		
15468	734.22	179.64	1032.19	49.88	97.00		
10109	1045.52	288.55	11597.93	74.73	96.96		
3924	182.19	68.67	273.97	5.41	96.92		
18918	31.02	27.50	-11.16	3.27	96.88		
17729	878.67	224.12	1508.83	163.08	96.83		
14695	1736.29	632.39	2885.22	95.16	96.79		
799	145.87	50.77	85.38	3.80	96.79		
20925	337.86	103.37	649.53	101.58	96.79		
25501	102.21	56.92			96.79		
7062	686.14	173.76		115.88	96.79		
398	0.40	12.35			96.75		
20711		42.18			96.75		
373	34.25	61.71			96.70		
6929	956.64	234.98			96.70		
20817	1073.65	677.30			96.70		
291	295.13				96.70		
3336	141.91				96.66		
3270	209.26				96.66		
259	700.25				96.66		
8509					96.62		
					96.58		
					96.53		
949					96.49		
713					96.40		

			-415-		
TABLE	er: Hydral	AZINE	Ally, [	Docket No.	44921-503
	int((s)): 6 hrs			Do	s, Mos. 1793
<b>Identific</b>	r NonToxMe	an Nontoxe	D ToxMean	Tonso	LDASco
23230	381.93	101.69	164.86	3.08	99.83
7299	180.37	151.55	684.70	26.37	99.66
11005	71.62	20.88	31.26	10.53	99.66
18715	190.60	53.82	312.84	2.17	99.66
18713	300.35	70.22	564.29	26.19	99.62
9306	45.76	18.52	121.89	7.27	99.62
19004	788.98	306.09	794.75	1.65	99.57
9525	5.08	44.31	64.20	2.12	99.57
19712	98.45	32.90	58.61	0.21	99.53
16203	66.52	16.97	45.27	0.17	99.53
20513	58.53	27.11	242.01	35.67	99.49
5918	26.70	40.82	72.84	4.20	99.44
14479	473.36	112.67	261.32	4.86	99.44
4194	34.33	17.04	74.46	0.76	99.40
8948	217.22	104.91	343.57	11.20	99.40
15015	503.71	91.72	339.92	3.82	99.36
22746	534.33	197.34	312.42	2.15	99.36
13235	16.43	13.42	75.50	8.64	99.32
90	93.87	50.03	147.79	0.44	]99.32
16069	159.01	26.48	31.64	0.25	99.32
20523	549.70	152.39	1021.93	129.01	99.23
15872	155.66	71.91	53.38	1.82	99.23
3513	171.87	35.63	273.79	6.58	99.19
7452	8.04	13.04	37.85	2.68	99.19
15059	92.43	24.57	82.57	0.16	99.14
8597	241.04	57.82	387.68	12.70	99.14
20849	277.59	87.41	309.60	0.68	99.06
13298	101.48	29.62	51.68	1.68	99.06
11406	242.13	50.08	177.73	0.85	99.02
7071	133.86	64.50	98.99	0.88	99.02
23189	330.92	72.72	460.60	3.57	]98.97
15411	303.87	190.07	657.96	59.65	98.97
8692	1045.40	309.78	638.87	9.02	98.97
22614 4969	17.91	87.18	86.87	14.83	98.93
3081	-18.84	34.82	77.79	30.12	98.89
15231	387.16 100.29	84.82	227.51	15.13	98.89
15942	230.65	44.00 65.79	233.89	22.19	98.85
18406	33.60	18.22	70.49	1.11	98.85
16024	239.14	63.32	487.33	1.79	98.85
2539	46.96	51.90	1304.80	52.09 46.42	98.85
26119	124.62	46.64	176.21	11.26	98.85
5723	200.38	172.05	91.78	10.99	98.80
21878	1144.05	35.94	106.39	0.58	98.76
3664	106.71	250.43	160.02	4.54	98.76
21014	1155.47	80.73	369.94	37.53	98.72 98.72
14842	122.80	45.94	280.85	20.55	98.72
13093	700.37	165.48	367.14	36.76	98.72
20404	53.45	44.01	336.92	98.70	
15126	792.34	224.59	1256.68	25.48	98.72 98.67
1948	153.55	61.38	307.30	111.57	98.63
844	1123.76	58.60	32.99	3.47	98.63
6025	1150.51	42.20	268.08	8.85	198.53
615	90.87	40.61	221.25	117.10	98.55
2575	20.61	15.66	10.19	0.32	98.50
23141	239.29	55.53	490.92	129.05	98.50

TABLE 55 Timenoin	99921-5039** No. 1793327				
	NonToxMean	NonToxSD	ToxMean	ToxSD	LIDAScore
15636	39.88	26.09	4.00	11.07	198.50
15885	93.27	28.63	182.42	15.91	98.46
5355	1164.75	345.23	1050.46	4.54	98.46
13151	711.00	343.67	1290.08	71.04	98.46
19195	1555.05	374.36	11121.86	8.23	98.42
6606	249.66	121.42	743.36	1159.90	98.42
2888	2015.72	588.67	1201.76	29.67	98.42
20405	34.08	29.57	195.15	62.34	98.42
7197	197.58	84.65	309.34	17.55	98.42
1215	67.05	49.57	246.66	140.98	98.42
17479	157.69	34.71	89.24	4.57	98.37
22733	21.90	14.11	64.22	8.36	98.37
1920	426.50	112.57	740.10	144.20	98.37
8745	57.56	19.95	100.05	2.83	98.33
22915	171.30	47.15	114.08	2.66	98.33
25587	24.39	16.37	17.05	10.15	198.33
13259	68.80	25.82	161.38	28.29	98.33
17468	396.41	77.87	278.70	4.37	98.29
14405	465.44	308.54	1276.71	188.93	98.25
14861	48.74	17.37	75.52	1.15	98.25
3027	1129.44	333.52	1205.87	5.52	98.25
1214	165.46	52.58	424.14	92.45	98.20
11158	1023.54	302.35	1115.38	6.37	98.20
20202	624.37	196.92	959.56	118.31	198.20
18290	275.55	78.31	420.92	7.75	98.16
21527	239.85	60.68	369.29	112.50	98.16
24885	1107.60	334.53	1092.86	5.80	98.16
23689	0.64	11.77	22.99	3.94	98.16
8869	8.35	21.59	31.83	0.60	98.16
17502	147.76	53.99	264.34	13.12	98.16
13203	-15.66	28.87	51.81	11.94	98.12
25971	106.47	34.61	50.27	2.15	98.12
13095	60.49	15.80	32.26	1.41	98.12
	34.25	17.22	19.79	0.49	98.12
	230.73	71.54	273.93	2.11	98.08
	689.99	222.20	447.42	9.98	98.08
17312	26.98	34.41	42.60	0.40	98.08
16026	221.52	75.94	411.54	26.17	98.08
5684	333.75	76.46	482.85	10.21	98.03
		93.39	276.43	3.61	98.03

TABLE 68:	IFOSFAMIDE	A CONTRACTOR OF STREET		ocket No. 4	4921-5039
Timepoint(s	s): 6, 24, 48, 144 (	hirs		Dog.	No. 1798397.
klentiter -	NonToxMean ·	NonToxSD	■ ToxMem	Texso .	LDAScore
19252	647.94	142.98	520.93	34.13	89.74
1622	2071.83	907.04	1625.21	143.87	88.88
16148	767.65	197.63	575.47	57.95	86.32
17779	1952.57	790.85	11617.53	137.53	185.80
12932	153.85	49.70	1108.04	13.75	85.63
11158	1027.66	302.42	759.65	56.80	85.37
10947	1800.32	754.28	1416.69	180.51	85.28
19408	2011.57	₹680.23	11580.63	1160.66	85.24
16013	58.91	18.74	71.23	5.22	85.11
19254	241.32	76.35	239.54	114.43	85.06
17886	1504.90	495.37	1122.51	190.54	84.72
16895	2027.29	906.56	1603.00	189.71	84.63
18300	450.17	150.80	316.95	39.08	84.33
8211	2862.98	1618.85	2138.69	273.26	84.29
23710	1141.57	367.03	897.82	179.04	84.20
11954	3141.99	1699.73	2471.68	314.40	83.90
1853	2014.76	833.49	1614.19	220.80	83.90
14695	1746.72	637.07	1297.75	126.83	83.77
8212	2267.04	1143.40	1689.07	186.62	83.42
13976	453.36	377.22	783.29	266.52	83.38
14997	2596.32	1029.67	2216.17	249.47	83.20
23709	2500.59	1207.33	1994.07	261.44	83.16
22592	234.68	168.43	397.15	108.13	83.08
18142	2001.91	840.95	1479.52	180.12	82.99
9135	719.00	131.99	601.54	43.95	82.90
14694	2326.49	1072.07	1849.47	243.07	82.69
18810	1189.60	320.47	979.08	72.74	82.60
18077	2627.05	1191.54	1778.68	232.31	82.56
15125	1303.70	426.26	1007.41	95.34	82.55
20751	706.77	161.80	835.79	96.53	82.51
14	34.24	17.91	48.60	8.82	82.47
23544	1515.02	495.50	1325.70	110.75	82.17
19993	2320.17	574.10	2616.44	234.66	82.03
9942	443.45	98.80	518.47	38.50	81.95
7682	673.25	179.30	543.60	51.66	81.95
23574	2282.20	973.76	1808.58	200.84	81.82
815	1138.28	344.89	837.60	73.20	81.65
1050	671.41	139.50	791.75	84.37	81.60
247	1310.50	504.69	915.02	93.84	81.60
8078	1152.53	545.02	1014.06	139.87	81.56
801	97.60	29.90	123.54	20.25	81.43
2901	1613.41	414.49	2126.00	326.75	81.39
20035	182.08	110.21	229.47	33.04	81.39
7118	53.61	19.28	66.07	6.68	81.30
7204	1733.32	660.21	1299.09	155.20	81.26
3847	47.46	36.72	90.72	17.29	81.21
0500	24.88	31.73	53.21	18.49	81.17
347	76.96	46.62		23.49	81.13
015	2318.93	997.42			81.04
0832	722.84	197.13	591.89	72.43	81.00
8615	521.90	148.77			80.95
989	269.37	71.43	354.20	68.39	80.91
9894	40.81	20.31		16.62	80.83
8076	2548.69	1193.37		244.55	80.83
1423	1355.89	429.81	1080.04	115.43	80.78

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	(s): 6, 24, 43, 14			D)@(G <sub>0</sub>	No. 1798397
Identifier	NonToxMea	n NonToxS	ToxMean	ToxSD	LDAScor
1523	89.47	123,47	1100.14	7.66	80.70
11991	57.24	22.13	76.61	111.20	80.65
23109	2089.70	930.42	1566.07	197.88	80.44
19727	1331.92	420.23	1162.29	117.79	80.44
18451	1434.72	418.40	1801.12	288.28	180.39
23884	41.09	33.35	54.46	12.98	80.39
472	662.53	178.22	1500.21	63.31	80.35
11153	1474.65	500.35	1320.86	134.33	80.35
23125	4577.67	2547.90	5632.15	1198.40	80.31
12598	545.25	95.85	644.01	73.00	80.31
915	30.40	17.20	53.68	14.78	80.26
6808	698.18	193.62	893.93	94.12	180.26
10260	85.57	33.38	94.71	10.64	80.18
25545	94.20	49.43	150.75	32.71	80.09
23660	1281.20	383.06	1072.18	89.30	80.09
15410	504.96	102.87	427.16	47.59	80.05
977	16.73	10.91	141.99	18.19	80.01
15137	1520.02	496.49	1254.30	128.20	80.00
26109	69.41	79.57	138.16	53.60	79.96
11136	1003.50	311.85	1725.42	1110.05	79.92
4217	519.77	126.27	592.35	45.95	79.92
13480	650.24	137.90	533.92	69.48	79.83
15535	448.65	83.59	358.13	46.40	79.79
15426	411.88	86.42	342.56	30.90	79.66
16012	73.15	32.18	78.40	10.56	79.65
4849	773.73	168.65	929.55	91.93	179.61
17765	1296.75	460.31	914.95	107.23	179.61
23967	383.11	92.35	484.27	165.27	79.53
9905	673.59	140.94	588.24	39.94	79.53
1583	30.08	18.99	43.08	17.71	79.53
1743	29.18	16.19	50.78	15.93	179.40
5446	370.71	193.07	1266.06	61.63	179.40
8905	1363.50	302.26	1680.54	J182.30	79.36
24049	1519.32	446.29	1776.05	182.78	79.31
4626	1504.58	1431.27	1251.16	1114.87	79.31
320	2467.06	1167.88	1920.44	1339.35	79.22
684	2833.17	1621.88	11212.60	870.83	79.22
21373	373.62	185.16	1332.82	32.95	79.22
16211	2261.75	1141.46	1652.93	320.55	79.18
6521	285.41	190.61	359,56	55.31	79.18
2661	1309.12	1421.45	1003.73	117.38	179.14

	: INDOMETHA		Ality. Do		<b>14921-</b> 5039777
	(s): 43,72 hrs		4		No. 1793397.1
	NonToxMean	Nontoxsd	TextMean:	ToxsD	LDAScore
155	21.42	16.98	101.88	13.61	99.53
154	112.29	36.99	249.23	25.25	99.27
16173	14.63	13.08	179.81	66.16	199.18
13614	340.21	88.42	786.72	118.82	99.01
1850	46.85	347.25	309.01	159.03	98.93
22499	8.20	11.83	58.62	19.91	98.88
1893	29.44	20.17	163.67	70.52	98.84
1221	0.23	15.64	193.08	98.35	98.80
21445	0.99	14.21	203.14	86.78	98.75
1854	43.31	289.94	282.61	143.16	98.67
25517	38.27	31.10	173.50	50.20	98.58
19710	43.43	20.81	132.45	42.06	98.54
6431	51.07	32.99	209.15	53.95	.198.50
2457	288.90	75.46	543.74	54.46	98.45
7299	177.44	143.66	797.13	276.35	98.41
23964	12.50	18.01	63.92	17.10	98.37
1943	31.78	14.21	86.66	15.03	98.15
13615	253.23	68.59	560.03	77.71	98.15
20713	215.61	108.00	606.67	98.17	98.11
24237	56.39	37.15	281.98	103.56	98.07
8565	31.85	16.10	105.94	38.19	98.02
7540	154.84	89.44	535.02	179.10	98.02
1845	-7.69	24.61	109.59	48.06	98.02
18684	137.77	49.02	305.11	48.29	97.98
7858	1-4.71	7.47	47.48	40.75	97.98
15408	192.19	56.59	376.55	44.39	97.98
10281	172.58	185.66	567.51	296.37	97.94
8867	103.82	49.82	263.24	51.22	97.94
18353	112.33	68.84	349.21	48.50	97.94
20715	134.85	59.63	354.19	34.91	97.90
5551	576.57	201.46	1150.85	135.93	97.90
7665	282.66	95.03	609.80	128.48	97.90
20868	22.06	17.54	98.66	30.62	97.85
343	28.72	32.40	151.55	21.38	97.85
20869	21.84	21.14	111.52	32.81	97.85
20711	43.08	40.65	197.85	41.42	97.77
6521	283.95	85.02	655.14	127.79	97.59
1444	19.93	43.02	180.28	49.29	97.51
1683	33.96	22.93	127.35	39.46	97.47
180 .	309.65	80.63	524.23	45.30	97.47
942	17.90	24.48	99.74	38.19	97.47
4184	113.17	49.05	251.46	48.41	97.42
894	202.61	73.39	421.42	64.64	97.42
5851	200.88	151.27	525.10	94.05	97.38
0700	85.68	416.32	391.89	193.02	97.38
	234.65	200.18	431.09		97.38
094	138.21	54.26	356.45	88.21	97.38
	96.41	46.12	235.98	52.95	97.34
260	193.81	71.46	443.67	108.75	97.34
	483.92	149.86	930.52		97.21
	77.25	81.17			97.16
	192.79	82.66			97.16
	26.63	17.31			97.04
		61.07			97.04
3004	142.59	42.21			96.99

	(s): 48, 72 hrs	THE PERSON NAMED IN COLUMN 1	The second second		ice of cook
ldentifier :	NonToxMean	NonToxed	ToxMean	ToxSD	LDAScore
19387	667.36	146.95	1017.20	82.56	96.99
2554	53.34	18.18	111.59	20.52	96.99
4661	307.32	90.25	543.97	56.72	96.91
21467	13.64	131.26	140.69	60.68	96.86
18352	162.12	85.33	437.38	90.35	96.86
15191	2030.38	1211.92	434.31	67.70	96.86
24183	68.30	35.60	194.82	48.12	96.82
4748	110.39	127.49	266.50	52.38	96.82
19711	83.58	22.63	149.45	21.04	96.82
848	18.09	11.05	45.15	4.76	96.65
10015	231.63	76.39	422.68	89.46	196.65
11708	319.08	90.36	587.03	103.59	96.65
22321	101.90	68.06	234.02	51.42	96.61
1597	50.19	41.89	187.05	63.28	196.61
6120	511.17	159.69	914.06	106.73	96.52
20714	178.33	78.97	430.20	87.05	96.52
24200	421.16	141.29	847.55	177.88	96.52
3316	8.48	111.20	32.02	7.24	96.48
14595	87.99	36.42	175.31	16.47	96.39
21654	362.19	1114.34	536.63	59.58	96.22
22479	433.07	146.06	846.76	137.55	96.18
18687	418.98	188.38	661.54	59.97	96.13
572	330.93	144.21	692.30	98.63	96.09
3020	292.14	93.53	549.45	92.30	96.09
25366	52.69	46.59	140.27	34.35	96.01
1183	98.16	39.08	183.02	34.74	96.01
9145	363.77	71.33	513.30		95.96
5409	399.23	98.94	637.09		95.88
7950	64.06	23.04	1112.35		95.79
6945	934.12	162.35	11222.61		95.79
6917	755.96	258.94	1351.72		95.75
286	205.05	59.59			95.66
8217	15.31	19.01	63.19		95.62
4185	203.46	94.18			95.62
6646	28.33	20.91			95.58
3837	100.89	40.39			95.53
1066	43.85	16.28			95.53
8068	82.30	21.15			95.49
1410	183.82	61.54			95.45
8355	56.83	27.50			95.36
044	327.15	91.24			95.36
3145	44.14	20.10			95.32
6859	122.48	51.26			95.32
5246	63.40	20.73			95.19
	27.09	25.66			95.19

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TABLE SU:	LITHIUM CHLOR	NDE	AMy. D		4921-5039W
	<u>): 120 hrs                                      </u>		o a vê	Dog.	No. 1798897
	MonToxMem		ToxiMean	ToxSD	LDAScore
24019	27.07	25.30	127.00	8.27	99.61
14421	418.40	87.55	639.64	12.93	99.57
13641	47.49	30.07	145.93	13.26	99.53
1463	619.17	296.16	1455.45	46.93	99.53
16300	61.51	20.88	147.76	15.29	99.49
13974	296.90	139.79	1260.41	177.75	99.49
3244	127.45	30.43	40.35	2.64	99.36
10464	131.43	35.68	41.70	2.59	99.36
1462	407.93	201.27	1216.38	60.80	99.36
18525	246.32	66.03	97.58	6.10	199.27
14227	72.35	65.02	265.04	34.60	99.23
25741	185.55	57.43	490.81	62.92	199.23
1224	3.70	11.53	50.50	8.69	199.23
13880	679.69	204.44	295.39	24.01	99.14
14261	39.73	17.42	113.90	16.40	99.14
18472	1551.82	378.09	827.52	66.71	99.10
15363	446.56	133.55	187.16	15.68	99.06
8598	139.25	41.61	362.49	73.57	99.01
	217.77	121.65	603.36	60.94	98.93
	99.93	24.11	228.47	44.23	98.93
20849	276.44	85.41	565.38	36.71	98.93
	750.17	198.73	371.84	30.56	98.89
	97.72	88.30	-1.97	5.36	98.84
	378.04	55.30	593.66	40.88	98.80
	202.36	532.80	480.79	60.48	98.80
	317.42	60.81	558.00	56.79	98.80
		82.88	614.21	64.30	98.80
	19.25	21.24	92.33	9.99	98.76
	10.51	10.22	41.67	5.33	98.76
		442.84	773.94	52.98	98.76
	386.32	115.78	64.71	31.63	98.76
		627.85	1600.29	142.54	98.76
	335.41	164.90	679.82	42.41	98.71
	81.48	29.97	171.81	18.17	98.71
	24.82	21.34	269.98	118.48	98.71
23294	244.42	55.35	115.25	8.35	98.71
	340.43	153.36	790.69	47.48	98.67
3957			264.04	43.03	98.67
	496.09	130.59	245.12	25.78	98.67
0697	1418.84		908.67	36.86	98.67
	415.71		903.01	137.68	98.63
9321			464.14		98.63
597			523.47		98.63
7159			1124.72		98.63
8103			149.64		98.59
698			1885.00		98.59
			6.76		98.59
4020			152.09		98.54
			87.26		98.54
			345.37		98.54
			95.22		98.54
					98.50
			629.47		98.50
			2114.90		98.50

llumepoint (s	ABLE 5U: LITHIUM CHLORIDE AMy. Docket No. 444 imapoin((s)): 120 hrs Doc. No					
	NonToxMean	NonToxSD /+	ToxMean	TexSD	LDAScore	
12376	19.26	124.98	83.39	19.10	198.50	
17106	81.66	24.82	36.82	2.74	98.50	
18473	2589.69	916.99	11318.66	52.24	198.50	
9254	246.49	148.78	393.24	20.14	98.46	
1340	191.26	49.84	289.47	26.83	98.46	
17162	6.69	16.97	58.11	15.91	98.46	
6806	1233.36	345.85	586.60	42.84	98.41	
25840	-2.65	12.34	54.97	27.90	98.41	
20887	784.36	296.51	2396.08	485.51	98.37	
1372	199.45	51.98	391.46	35.86	98.33	
18349	140.08	38.43	262.92	23.80	98.33	
14989	500.36	106.29	910.22	99.63	98.33	
4049	23.03	65.14	113.93	24.17	98.29	
11483	65.04	45.49	132.25	10.90	98.29	
9867	29.07	22.58	-38.05	11.94	98.29	
13411	789.51	324.70	239.08	27.46	98.29	
25709	267.20	83.61	591.14	81.21	98.29	
17160	1038.70	287.67	1872.62	168.15	98.24	
12673	37.66	22.70	116.03	13.02	98.24	
25306	27.76	21.91	-55.70	19.66	98.24	
16349	47.04	14.11	94.68	13.74	98.24	
13392	190.93	48.80	355.59	34.39	98.24	
4048	-6.11	32.04	34.41	10.44	98.20	
2915		36.50	176.88	18.22	98.20	
15761		42.30		3.24	98.20	
111		237.37	1115.91	164.07	98.20	
24695		21.72		4.47	98.16	
19152		52.20			98.16	
4597				83.53	98.16	
1527					98.16	
776					98.16	
626					98.11	
3075				19.92	98.11	
5511					98.11	
386					98.07	
34					98.07	
9665					98.07	
0984					98.03	
5247					98.03	
905					98.03	
					98.03	

	ercuric Chloride 3, 6, 24 hrs		Atty. Docket No. 44921-5089W Doc. No. 1793327			
			- Mile dis is			
ldentifier 🙏	NonToxMean	NonToxSD :	ToxMean	ToxSD 🐇	LDAScor	
8665	332.39	171.86	5197.14	2943.02	99.44	
1475	136.94	103.32	3940.87	1974.36	99.18	
20035	178.08	98.83	1635.50	155.87	98.10	
19723	74.87	55.61	273.03	109.44	98.02	
15191	1988.23	1177.92	5041.11	935.19	96.55	
14139	80.54	27:01	25.59	13.59	95.47	
8664	86.42	70.91	2082.06	1352.81	95.23	
12331	594.25	155.97	254.07	138.26	94.96	
17734	119.63	75.92	566.88	280.56	94.84	
23579	734.95	1158.66	430.76	80.03	94.78	
23983	544.27	150.95	220.82	131.74	94.48	
14138	84.72	29.10	33.29	12.42	94.31	
16518	826.45	273.09	2395.53	1930.51	94.24	
17635	651.30	148.78	358.62	92.32	93.79	
7196	178.22	77.07	494.09	205.98	93.68	
15850	1203.52	323.32	2507.97	545.30	93.68	
24235	433.60	163.10	1038.60	349.80	93.55	
21445	2.08	22.76	30.67	12.91	93.51	
24649	122.93	28.55	76.77	12.19	93.49	
5867	166.42	48.13	259.79	50.17	93.49	
3348	497.46	129.58	259.25	78.88	93.45	
15848	1313.68	402.72	2886.50	676.70	93.42	
19768	706.30	166.91	1328.43	290.35	93.42	
17161	11144.51	381.55	2737.15	723.56	93.33	
1004	108.90	32.28	56.68	110.23	92.84	
15190	1789.26	1124.32	5409.42	11117.57	92.73	
14595	89.23	36.64	26.57	116.82	92.67	
15189	1722.10	1120.12	5391.29	1462.09	92.60	
15300	135.69	130.01	397.39	125.33	92.60	
23314	67.33	271.41	622.50	1259.52	92.43	
15301	37.59	67.32	147.90	49.32	92.39	
18944	202.65	68.48	458.00	181.57	92.30	
6054	27.38	53.50	71.68	29.34	92.26	
13642	209.02	74.04	85.92	29.90	92.24	
23230	378.13	96.00	695.07	177.40	92.17	
17211	1433.79		2360.95	279.33	91.85	
3493	58.50	20.07	107.74	26.19	91.82	
23825	283.86	49.04	166.00	50.35	91.78	
18564	219.22	49.05	95.46	32.77	91.74	
11680	360.19		233.52	34.79	91.68	
17765	1277.82		2585.84	1579.12	91.65	
16982	138.22		380.00	223.17	91.57	
13610	357.65	69.18	196.18	80.11	91.26	
21993	76.47		129.83	118.36	91.26	
3927	745.07		377.77	1106.17	91.01	
11871	55.24		197.33	57.60	90.91	
11050	670.06		972.43	147.61	90.88	
13507	422.59		659.30	138.95	90.83	
9271	102.44		21.68	25.82	90.82	
19031	59.98		145,41	39.97	90.79	
			2135.75	393.09	90.79	
24577	1168.59				90.75	
24577 10182	2.45	99.29	78.59	59.67	90.75	
19031 24577 10182 18300 18259		99.29 147.74			90.75 90.75 90.72	

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TABLE 6V:	MERCURIC CHU	OKIDE	Ally, Docket No. 44921-5089W			
	s): 3, 6, 24 hrs				No. 1798397	
	NonToxMean		ToxMean	JOXSD.	LDAScore	
6632	171.87	58.89	288.22	64.66	90.53	
13611	273.95	107.44	57.12	66.20	90.45	
25098	43.26	30.01	276.68	179.66	90.37	
22539	71.67	46.78	-27.28	37.71	90.36	
20945	897.15	248.57	1469.22	277.42	90.32	
19678	110.11	57.05	-19.38	53.40	90.32	
23567	52.11	60.74	235.62	105.54	90.29	
23868	159.82	189.43	1997.17	11212.75	90.24	
812	157.29	34.98	83.70	36.70	90.19	
23872	44.34	60.45	587.85	460.34	90.16	
21372	276.72	65.43	134.32	44.54	90.10	
18611	1409.94	1446.15	2438.75	459.58	90.10	
21306	126.88	54.43	52.78	18.76	90.09	
3808	166.04	48.80	407.80	212.39	90.07	
12031	145.86	38.78	225.16	30.38	90.06	
23869	36.50	52.75	579.45	394.24	90.03	
3015	2289.41	964.34	4534.92	1150.81	89.97	
17908	60.79	49.95	325.35	238.47	89.90	
25539	125.13	35.09	45.76	23.16	89.89	
3473	120.74	34.02	69.52	20.97	89.83	
2536	397.05	123.98	201.50	173.82	89.83	
23826	344.12	55.78	225.14	47.99	89.80	
9114	870.77	222.15	416.13	1221.53	189.80	
1639	97.37	22.99	62.34	12.37	89.70	
20920	617.66	155.43	1397.16	623.36	89.60	
20350	156.72	49.50	53.00	45.87	189.58	
6615	279.24	184.15	96.62	96.14	89.50	
19952	167.58	24.21	24.03	111.92	189.41	
8237	102.59	36.73	179.81	51.98	89.37	
11841	1886.79	1192.09	11632.36	479.53	89.34	
2310	-47.82	140.85	136.34	37.62	89.32	
15796	337.30	187.85	1156.28	76.95	89.24	
22681	216.80	177.12	918.02	459.53	89.21	
22543	694.25	216.61	217.39			
19433	110.29		445.41	263.73	89.20 89.17	
22540	1828.95	59.85	1794.41	230.04		
17473	1828.95	538.43		586.09	89.07	
17473		90.69	764.49	230.12	89.04	
	1177.56	384.90	1982.41	472.79	88.98	
18396	74.08	26.23	124.23	18.90	88.94	
19	336.88	73.75	628.54	175.62	88.82	
25567	456.18	167.99	922.98	373.29	88.65	
20728	538.10	99.95	327.92	109.45	88.59	
24351	-2.24	8.36	22.30	16.23	88.56	
9053	240.22	50.14	146.06	39.78	88.55	
18305	1364.98	457.67	2297.19	1462.10	88.51	

		-425-			
	The second second	Total Annual Control of Con-	and the same of th	- 277	
	P-MID-ONAT				1921-50:8\ ''0
	s): 24 hars				9 <b>3. 17933</b> 27.1
Centitier/	NontoxMean *	NonioxSD -	loximean .	Torso :	LIDAN SCORE VI
439	55.65	23.09	35.13	0.15	99.49
381	23.05	20.96	4.85	0.20	98.80
1439	233.12	46.90	167.13	1.64	98.63
24501	526.65	117.76	477.38	1.09	98.50
815	1161.46	344.32	1840.91	46.72	98.50
	24.61	15.80	18.81	0.26	98.37
25907	19.98	25.22	27.99	0.55	98.33
4440	320.37	110.50	249.77	1.69	98.33
8950	91.09	33.83	64.54	0.45	98.29
1145	59.20	26.43	36.98	0.67	98.25
20257	130.93	45.11	78.91	1.23	98.20
12781	189.97	49.11	273.46	3.66	98.12
20427	796.69	192.75	1119.78	17.38	97.90
16938	1322.80	411.98	1887.43	31.46	97.90
1324	63.66	31.18	28.89	2.88	97.82
16584	115.91	45.04	161.39	2.19	97.73
	47.91	18.57	30.16	0.64	97.73
	447.34	108.01	244.96	13.58	97.69
1310	152.06	33.32	86.35	7.14	97.69
	3812.40	1012.46	4862.16	57.22	97.65
	151.18	44.26	223.47	4.06	97.65
	297.65	66.21	180.38	7.11	97.60
	68.35	35.92	36.63	1.47	97.56
	166.71	45.74	158.83	0.92	97.43
	878.67	240.75	692.24	5.18	97.39
	41.41	14.72	34.35	0.38	97.31
	50.68	18.55	31.84	0.83	97.31
	133.51	42.32	62.52	3.81	97.26
	648.73	151.15	484.36	6.12	97.22
	205.78	60.59	319.19	10.41	97.22
		23.63	34.69	0.41	97.22
	105.90	50.58	91.90	1.08	97.13
	1521.63	357.02	1485.82	9.84	97.13
	384.13 54.15	98.77 51.85	465.98 121.54	4.26 7.12	97.05
					97.01
		45.67 316.96	234.96 1382.93	195.06 14.86	97.01 96.96
		60.97		2.29	96.88
		28.59		1.97	96.88
	33.31	18.06		0.33	96.83
	579.55	128.85		44.29	96.79
		43.60		1.12	96.79
		49.48		1.04	96.75
		15.83		0.70	96.75
		116.93		47.74	96.71
		404.25		50.26	96.71
		53.70			96.71
		21.65		1.38	96.71
		16.54			96.54
					96.49
		310.95			96.49
		40.06			96.49
					96.45
					96.45
1259	12 10.70	551.05	1204.00	10.42	JU.40

TABLESW	7: PAMIDRONA	棺	Allow, Dog	albait Mo. 4	3921-5039VX
	(s)): 24 has				lo. 1793997.
lelen@fer	NonToxMean	NonToxSD	ToxMean		
7010	309.13	55.63	255.94	3.25	96.36
18880	36.99	112.90	31.14	0.58	96.32
3007	126.64	42.37	192.91	7.32	96.28
1375	84.74	20.63	55.45	2.98	96.28
19244	11227.03	383.14	1715.96	64.01	96.28
6595	76.76	35.41	102.22	12.83	96.19
18126	701.66	166.62	548.76	14.64	96.19
10869	11.30	60.29	123.29	15.83	96.15
15239	567.46	132.45	783.53	43.73	196.11
4241	114.51	43.66	203.36	162.90	96.11
12360	55.02	27.32	35.03	1.44	96.11
11687	25.88	23.50 .	35.95	11.69	96.11
5492	97.03	47.49	24.35	5.81	96.11
9671	124.41	52.83	135.25	11.91	96.11
9410	62.57	24.27	160.98	0.84	95.98
13105	64.62	26.94	43.02	1.19	95.98
10659	132.22	90.74	258.54	43.13	95.94
106	59.79	20.18	35.91	1.62	195.89
2697	1226.39	358.41	1822.86	180.35	95.85
10217	310.63	90.28	201.72	7.38	95.85
22658	275.00	67.48	237.14	2.73	95.85
3417	445.05	113.12	533.98	7.67	95.81
15446	369.04	93.58	428.95	2.94	195.81
2847	62.77	31.28	81.96	1.81	95.81
2469	1383.42	482.22	963.09	26.57	95.81
17175	619.05	156.40	867.90	59.01	95.77
4386	56.38	26.60	45.57	0.72	95.77
21491	110.61	27.92	90.43	1.09	95.77
20844	843.25	294.01	1309.53	64.24	95.72
9370	773.72	201.87	676.25	8.78	95.72
15130	274.69	83.28	262.79	4.56	95.64

	PAN (s): 163 hrs	14.1.2	Ally. Do		9921-5009VV No. 1798397.
ldentifer		NonToxSD			
6100	-24.28	62.27	70.39	19.04	99.79
2048	31.63	20.68	1119.91	5.57	99.79
24024	32.82	21.87	144.74	15.76	99.79
14722	658.73	219.20	1717.84	115.16	99.74
21651	31.52	24.04	198.29	19.08	99.74
15401	75.65	26.38	220.16	14.55	99.70
15503	124.16	37.19	305.20	27.55	99.70
7090	16.70	14.04	114.99	16.69	99.70
10893	-30.66	62.67	]46.11	19.29	99.70
23780	24.98	35.81	102.35	16.07	99.66
16726	944.95	205.53	460.40	]16.03	99.61
14430	33.41	27.29	289.53	65.58	99.61
15434	132.29	53.11	374.76	31.01	99.53
17198	812.71	267.14	249.19	36.68	99.53
15437	38.33	22.07	168.45	19.74	199.53
225 3584	1123.21	34.21	276.57	21.70	99.49
9084	64.34	31.89	290.58	28.71	99.49
20736	46.92 331.77	17.70	134.77	13.50	99.49
19374	-8.73	100.84	748.89	43.21	99.49
20699	94.34		63.84	14.49	99.44
22816	23.08	231.80 15.16	255.20	18.42	99.44
23297	384.07	96.58	83.31 840.46	4.90	99.44
15002	140.16	98.17	338.90	53.16	99.44
3269	75.61	36.41	365.17	19.21 72.48	
23773	212.24	81.04	629.63	48.29	99.44
23992	5.27	6.59	156.95	14.22	99.40
17682	673.28	176.72	223.65	27.55	99.36
3079	34.49	46.53	164.24	20.61	99.36
23778	68.50	31.99	270.34	37.08	99.36
19006	1642.56	208.65	1445.68	75.63	99.31
20887	793.69	313.68	218.40	48.36	99.31
5039	310.04	86.04	693.54	28.37	99.27
5003	35.50	95.84	254.52	23.59	99.27
7227	873.36	191.79	476.74	33.25	99.27
1801	97.51	29.11	207.98	12.46	99.27
0015	231.53	75.18	560.75	25.13	99.27
2683	60.85	40.62	505.60	124.63	99.23
6675	33.50	33.48	151.49	16.04	99.23
809	36.19	128.09	267.84	32.82	99.23
5981	75.09	25.95	290.62	83.27	99.23
637		42.73	270.38	22.27	99.23
284	99.14	37.28	252.45	25.44	99.23
1338		31.91	342.99	92.86	99.19
6425	19.78	26.43	256.34	69.36	99.19
212			2309.86	189.18	99.19
3977			1144.78		99.19
572		17.83		47.47	99.19
2079					99.19
3974	298.69				99.19
4564					99.14
8603		67.13		18.99	99.14
010					99.14
7501	31.72			6.17	99.14
3376	14.35	15.90	95.17	30.08	99.14

	X PAN		Ally, Do		1921-5039W
	11(s): 168 hrs		λ,		lo. 1798697
	<ul> <li>NonfloxMean</li> </ul>	NonToxSD		ToxSD	LDAScore
6517	231.39	155.95	730.29	101.68	199.14
20599	22.90	12.70	74.26	5.67	99.14
23377	61.42	52.07	359.41	62.64	99.14
14405	459.81	287.63	2264.76	369.05	99.14
1564	38.78	169.92	459.31	64.11	99.10
16676	38.17	26.57	134.01	11.56	199.10
21695	59.83	35.43	188.55	18.05	99.10
20886	719.56	292.49	116.56	44.10	99.10
17151	16.05	62.27	445.34	138.38	99.06
770	798.22	219.65	310.69	35.90	99.06
7262	1116.47	390.83	2517.22	160.89	99.06
23981	809.28	155.43	1417.26	153.29	99.06
22552	314.65	94.11	570.75	29.08	99.06
20709	162.15	69.62	483.04	60.17	99.06
7585	-91.46	37.80	142.97	84.57	99.01
15853	5.82	59.90	258.64	131.89	99.01
22592	233.64	160.86	1028.66	111.76	98.97
1445	514.32	117.31	988.03	63.78	98.97
4086	14.01	16.98	152.91	75.32	98.97
21509	88.80	92.91	448.20	56.16	98.97
24651	100.64	23.29	204.63	19.93	98.97
7101	389.56	671.41	1218.47	165.33	98.93
15851	200.60	148.70	784.83		98.93
23769	-6.25	8.68	29.51	10.78	98.93
15504	128.87	50.45	417.46	77.64	98.93
1613	-7.12	28.04	117.88	29.33	98.93
15438	65.66	32.54	171.12		98.93
460	198.26	83.19	563.02	70.47	98.93
3976	449.17	351.62	2551.95	498.75	98.93
20903	69.41		397.90	116.45	98.89
23123	310.66	118.21	861.54	70.50	98.89
15790	45.93	25.16	134.46	10.51	98.89
21391	213.21	127.55			98.89
155	137.60				98.89
20772	149.52	40.53	313.83	28.96	98.89
9275	726.18		1580.61	140.07	98.84
7149				60.26	98.84
9243	76.71		359.48	105.52	98.84
7197	1903.25		668.38	83.11	98.84
1891			25.77	9.49	98.84
640	80.30	30.25	184.62	15.77	98.80
569		6.39			98.80
629				4.98	98.80
8529	202.36	80.95	572.14	48.95	98.80

## -429-

	din((s)): 6,24 hrs		dained the same of	Ecc. 0	lo. 1793397.
kdemtifi	er NonTexMean	NonToxS	D Toxillean	ToxSD	LDAScore
410	1099.85	252.82	487.89	71.66	99.01
1137	58.38	18.64	128.72	40.53	97.55
18322	2669.23	812.57	1422.54	109.34	197.47
15433	67.21	32.38	147.81	13.69	97.04
8990	278.32	77.85	504.55	67.10	96.35
23115	565.35	169.43	1013.53	113.02	96.22
1460	199.21	86.34	300.32	24.45	95.97
335	96.10	45.37	194.53	15.33	95.92
2866	637.05	212.44	1020.97	43.03	95.75
15701	37.69	16.68	82.72	11.76	95.75
16853	67.54	23.29	107.06	8.27	95.58
17693	1257.20	377.49	705.99	42.86	95.41
6250	490.36	103.66	731.52	54.23	95.36
19327	89.22	29.33	144.42	10.71	195.28
21977	88.79	152.26	163.28	117.00	195.11
1962	33.32	26.88	74.11	7.81	95.06
19080	75.82	57.08	219.58	56.51	
13598	349.80				95.06
11524	1-14.25	109.75	578.05	60.94	95.02
		24.65	43.36	19.72	95.02
729	90.40	35.70	171.30	19.74	94.98
15552	175.81	40.06	237.25	9.67	94.98
4312	77.28	38.83	150.22	19.98	94.94
18996	137.86	44.69	250.58	35.37	94.85
17411	79.24	54.48	184.11	25.15	94.76
20752	13.07	11.34	26.51	2.40	94.76
11445	436.52	103.96	686.40	101.03	94.42
17755	393.23	1102.51	214.27	40.93	94.42
19077	208.94	151.22	306.89	24.65	94.25
21355	375.05	118.77	619.86	88.05	94.21
6454	239.78	78.25	421.17	60.75	194.16
21092	392.44	225.02	575.95	55.98	94.12
11618	414.89	130.79	694.32	108.18	94.03
18338	72.29	20.32	112.46	9.87	94.03
15050	637.68	181.55	464.30	24.18	94.03
1608	12.70	29.99	154.74	19.39	93.99
24539	613.90	163.40	344.65	53.69	93.99
5900	265.48	65.87	137.54	40.46	93.99
13239	109.63	48.60	209.05	26.39	93.99
5163	20.12	13.08	44.33	7.38	93.82
21130	78.12	26.32	110.79	5.99	93.73
2236	140.10	38.70	1215.23	16.78	93.69
5967	1225.74	1339.49	1876.92	202.57	93.65
9799	145.09	50.35	241.50	35.40	93.56
16205	940.52	264.48	668.73	24.99	93.56
456	869.99	1317.52	515.38	44.20	
25097	4.68	10.99			93.56
			25.79	8.52	93.52
12020 5924	167.47 162.21	60.50	285.05	31.13	93.52
4716		46.91	256.59	29.67	93.52
	156.93	40.11	238.10	25.26	93.48
8339	432.55	130.90	704.91	90.15	93.43
5561	167.91	55.87	283.83	41.10	93.39
15112	1549.68	531.98	736.99	1111.89	93.39
7278	1467.27	341.78	1077.40	67.94	93.35
7108	53.62	29.56	116.16	20.84	93.30
4956	79.01	38.21	153.60	24.20	93.30
20404	53.75	46.18	126.25	22.59	93.26

-430-

	5y: Pan	The second	Ally, Do		921-503900
	in((s): 6,24 hrs	100			lo. 1796397.
lden@fe	r NonToxMean	NonToxSD	ToxMean	TOXSD	LDAScore
6049	621.00	123.14	541.13	19.05	93.22
9109	1021.28	337.87	723.36	126.27	93.22
4393	1268.21	369.74	824.30	42.57	93.18
18541	1081.46	298.74	758.66	24.93	93.13
15556	208.38	83.99	333.56	45.17	93.09
4589	1213.38	369.83	790.80	42.48	93.09
22271	273.68	65.98	411.42	75.15	93.05
21423	1355.28	1427.17	786.98	56.19	93.05
6506	234.14	60.71	335.18	21.90	93.05
4290	94.34	28.53	147.53	19.36	93.05
20350	155.10	50.13	248.15	131.72	93.05
714	46.67	31.34	1115.67	27.05	93.05
1485	93.58	57.35	198.96	32.55	93.00
18433	19.39	46.95	105.10	24.21	93.00
17567	11185.38	364.09	750.70	133.02	93.00
24615	817.72	230.83	583.06	24.71	92.96
15742	33.17	14.60	56.07	3.60	92.96
20766	56.29	20.07	93.49	10.52	92.92
15209	164.94	33.20	220.88	12.45	92.92
20879	87.79	50.58	1180.08	38.06	92.88
19408	2011.27	675.11	1014.96	97.93	92.88
1247	1309.18	501.52	569.36	138.91	92.83
15299	88.50	61.88	119.48	12.69	92.83
11377	116.76	30.96	177.28	17.37	92.79
9037	22.39	16.20	56.28	11.77	92.79
24390	162.85	1113.82	331.70	49.97	92.79
1550	30.09	69.61	60.64	8.26	92.79
1300	156.68	44.76	234.60	19.19	92.75
1585	67.71	33.38	128.60	16.01	92.70
25599	56.14	20.41	91.99	18.79	92.66
17524	1173.79	285.74	801.36	1115.86	92.62
15122	420.86	89.65	588.05	45.81	92.58
25369	18.36	10.68	38.74	6.19	92.58
3886	58.10	28.84	117.74	22.59	92.53
643	61.37	32.91	119.52	18.91	92.53
14003	815.86	212.90	497.74	73.28	92.49
16164	1083.28	283.92	680.99	54.84	92.49
20864	1587.98	660.11	798.40	87.84	92.45
17742	1066.26	308.06	723.12	37.02	92.45
23248	37.67	17.23	53.27	3.03	92.45
17204	1732.06	656.42	888.59	86.53	92.45
24501	525.70	117.48	664.66	34.25	92.40
14125	128.41	50.32	217.38	25.88	92.36
5968	962.02	263.60	1474.27	231.26	92.36

		-43	1-		
TABLE 52	2: PAN	To the state of th	ACCOV INC	reket No. 4	กอลา
			المحافظة المحافظة	Dog.	
	NonToxMean		ToxMean		
15433	66.69	31.46	164.15	24.65	_
1962	33.08	26.68	80.19	111.69	97.2
16122	1116.83	40.09	224.79	57.88	94.9
1247	1312.82	499.50	526.34	127.30	94.8
16853	67.23	22.82	120.51	22.86	94.8
17693	1260.09	375.71	656.50	74.07	94.7
13239	108.92	47.30	236.00	58.32	94.5
15112	1553.39	530.07	717.14	110.65	94.3
18433	18.80	46.13	126.18	39.27	94.3
16121	109.21	58.36	264.16	84.47	94.1
15701	37.56	16.60	76.48	12.40	94.0
19077	208.57	51.01	301.25	21.97	94.0
4723	1721.81	624.78	922.60	68.61	93.5
25097	4.60	10.95	24.13	7.34	93.2
7278	1469.82	340.27	993.59	122.75	93.2
1159	888.08	229.69	532.18	82.33	93.1
15184	-80.88	50.16	76.70	82.34	93.0
456	871.69	317.12	499.51	56.17	92.9
1608	12.56	29.97	50.60	9.98	92.9
15437	38.06	21.84	118.82	46.29	92.69
225	122.71	33.55	235.76	49.22	92.5
14997	2605.00	1019.08	1218.22	195.95	92.46
15401	75.23	25.84	175.78	44.88	92.39
19408 18076	2015.21	673.87	1049.53	100.77	92.20
18076	2552.08 2630.74	1185.85	1116.73 1067.76	1165.36	91.9
15434	131.68	152.58	292.95	80.76	91.7
16211	2268.34	1131.65	761.93	145.25	91.5
11208	322.94	110.75	642.67	141.37	91.4
24651	100.37	23.09	169.86	33.73	91.4
16012	72.52	31.21	141.73	32.89	91.3
1542	928.57	263.76	548.27	84.14	91.34
14722	656.51	217.90	1314.74	367.97	91.3
4589	1215.64	368.99	748.52	72.66	91.2
17886	1506.14	491.91	843.64	96.88	91.16
17829	2232.91	11111.68	900.83	138.88	91.16
15673	804.12	164.51	1076.89	78.92	91.16
4312	76.92	38.49	154.79	22.22	91.09
2079	303.47	81.98	400.13	28.12	90.99
18694	53.10	48.50	177.05	53.91	90.96
18322	2673.81	811.21	1499.15	181.85	90.79
16168	350.70	206.64	479.34	84.79	90.78
17779	1958.43	783.05	911.49	158.95	90.73
3990	277.74	77.38	465.89	83.79	90.57
3434	322.35	138.05	614.67	136.42	90.57
18729	19.67	29.33	96.11	37.87	90.57
14003	817.64		458.34	85.08	90.53
22816	22.96	15.10	59.89	23.04	90.49
9799 1521	144.50		258.44	54.08	90.49
15886	302.74	50.29 61.73	136.10 436.98	71.19	90.49
16155	1084.95		632.04	44.28 54.95	90.45 90.43
1485	92.98		213.05	31.14	90.43
7204	1735.18		938.01	109.72	90.30
1203	4.95		44.90	22.64	90.30
1200	17.00	10.70	77.00	122.04	JU.21

	(s): 6,24,163 P		Doc. No. 1798		
identifier		NonToxSD	ToxiMean	ToxSD.	LDAScore
19080	75.38	56.65	202.18	64.18	90.27
1622	2078.05	898.00	838.34	1144.28	90.26
17712	858.75	187.72	604.46	57.40	90.26
19407	1533.63	471.44	919.83	109.37	90.26
4280	1275.34	435.07	698.85	97.31	90.22
635	1254.34	431.22	723.36	97.99	190.17
22554	544.56	150.27	343.47	69.26	90.17
11524	-14.44	24.49	37.71	21.53	190.14
21703	16.32	12.14	42.83	13.13	190.10
14125	127.72	48.99	246.62	72.21	90.06
17480	119.30	33.27	190.90	31.79	90.01
23322	1169.31	283.61	760.72	114.86	89.96
8234	49.37	21.69	92.92	31.52	89.93
13682	176.92	61.79	309.18	50.37	89.89
11321	175.44	50.38	286.20	155.16	89.89
25253	291.91	64.62	414.09	38.27	89.71
23852	262.19	102.61	480.31	78.92	89.71
20781	57.13	21.07	88.06	13.32	89.70
1582	16.67	13.15	45.26	13.10	89.67
24696	68.64	47.19	170.78	42.12	89.67
818	4144.91	2804.50	980.91	271.23	89.66
9109	1022.78	337.79	702.34	58.34	89.66
21708	36.51	16.01	73.22	15.22	89.63
17549	1309.92	366.25	854.17	88.86	89.61
16591	151.86	47.16	253.45	36.23	89.54
17154	198.88	57.70	280.48	33.03	89.53
4694	2332.83	1063.34	1038.43	256.02	89.48
23109	2093.27	924.06	1002.79	195.59	89.48
2236	139.93	38.69	200.68	21.94	89.48
22661	1310.36	418.55	756.78	88.01	89.48
857	51.98	45.43	149.29	46.95	89.45
20876	1681.76	611.63	958.77	99.56	89.44
25468	2183.54	1132.38	823.42	189.02	89.44
23215	106.03	29.48	169.54	21.53	89.41
900	265.96	65.56	144.68	40.70	89.41
811	10.93	26.49	65.20		89.37
23709	2507.78	1197.86	1088.40		89.35
95	135.24	83.30	303.90		89.32
20998	161.29		276.37		89.32
7194	46.75	27.72	107.07		89.32
	88.98	29.10	144.83		89.28
		27.96	121.65		89.27
19			1015.34		89.27
015			1058.04		89.22
1355			598.37		89.20

Timepoint	A: Senustini (s): 168 hrs	3	Augy, De		9921-5039VX No. 1793397.
Identifier	NonToxMean	NonToxSD	ToxMean ~		LDAScore
23830	-3.74	14.74	24.13	2.44	98.46
2655	43.68	149.43	103.83	113.87	98.07
22547	15.31	164.20	55.98	7.70	97.99
21893	51.15	34.39	1119.77	15.62	97.86
7806	52.07	19.62	68.71	1.17	97.73
7785	1830.12	494.30	1054.17	67.70	97.69
25705	455.94	115.83	667.36	30.91	97.64
22050	3163.82	930.45	2122.73	41.59	97.47
21443	103.90	53.37	35.53	5.08	97.26
23981	812.67	160.21	626.66	12.41	97.13
5733	12.64	47.16	51.31	11.73	197.13
8494	276.36	53.17	213.99	3.26	197.13
8901	25.65	33.31	2.82	0.93	97.13
7023	364.88	77.19	1291.07	3.81	197.09
18353	113.25	70.77	275.16	28.92	97.04
3027	1129.65	1333.83	11127.48	12.54	197.04
8177	3894.73	1495.61	2320.07	89.57	196.92
19398	4332.61	2167.49	2566.57	72.18	196.83
23626	71.43	37.20	159.26	19.40	196.83
18650	804.69	246.36	518.86	13.70	96.74
15627	5054.50	1946.06	3041.20	196.69	196.62
20757	413.88	222.48	607.95	151.66	96.53
2410	11.25	10.57	25.63	2.99	
7274	576.90	150.70	364.54	16.30	96.49 196.44
26147	1030.83	225.21	645.26	149.87	
3359	119.66	57.61	1290.85		96.32
	104.13	23.52		65.10	96.27
7867	64.06	34.54	163.18 1163.76	4.39	96.06
	90.19	44.20		30.00	96.02
	32.07	18.29	1111.89	2.06	95.93
	2810.78	1628.26	77.92 2548.66	15.10	95.84
	2230.57	613.60		84.69	95.84
	138.49	48.09	1498.90	56.20	95.84
	238.93		181.53	4.13	95.80
	6.68	79.65 15.73	379.87	38.25	95.76
	2327.93		27.19	3.33	95.76
		570.40	1514.68	94.53	95.76
		216.90	167.34	16.19	95.76
		211.63	480.10	25.98	95.76
		35.08	116.24	1.67	95.72
		839.22	1965.70	25.18	95.63
		341.68	1037.78	55.91	95.59
		7104.79	4192.02	442.45	95.59
		229.89	618.26	7.44	95.50
		537.86	1741.86	94.90	95.46
		68.20	52.95	4.33	95.46
		1714.05	3187.73	133.28	95.46
		90.16	295.43		95.37
		441.72	1574.36		95.37
				10.26	95.29
				9.80	95.24
		13.39	-1.42		95.20
		422.77			95.16
	744.31				95.12
090	308.90	80.19			95.07
163					95.03

		-434	<b>1</b> -		
TARIE	5AA: SEMUSTIN	Brown ter papers. I	Active Toler	bac Ma W	1921-5089W
	lot(s): 163 has	-	symply fami		lo. 179839
	r NonvoxWean	Norther Co	l'oxMean •		
7337	130.17	135.83			
5689	112.93	20.23	72.98 44.79	111.19	95.03
22737	204.61	104.35	375.42	8.55	94.99
4640	80.47	30.73	1144.33	54.48 117.03	94.94
10819	1187.21	363.05	11125.76	18.01	94.82 94.82
3269	76.54	40.97	147.76	18.49	194.82
18468	90.58	33.19	99.23	11.85	94.77
6204	39.16	12.29	53.01	1.67	94.77
19372	61.97	54.00	9.74	2.20	94.73
21628	116.51	45.00	204.96	26.35	194.69
3075	523.79	180.19	291.98	21.30	94.69
8015	52.45	36.45	80.79	2.30	94.64
20105	80.00	53.71	27.37	3.94	94.64
18830	5928.33	2277.75	3404.34	229.07	94.60
12639	1231.40	359.71	1328.85	25.82	94.60
2697	1227.29	359.86	1375.72	25.94	94.56
2326	1442.32	399.30	866.19	98.10	94.56
9180	82.53	35.16	153.13	21.13	94.47
22838	1383.85	399.86	912.16	54.21	94.47
23509	2234.19	462.51	1771.07	42.02	94.47
23709	2494.50	1202.87	2200.91	59.43	94.34
2912	2618.16	709.02	1838.26	100.99	94.34
20944	1191.93	395.05	1322.96	34.77	94.30
25589	154.92	38.08	184.54	2.96	94.30
8800	2730.47	1166.13	1296.14	149.09	94.26
2311	22.96	16.01	54.56	12.04	94.17
10	1097.48	256.27	795.24	44.26	94.17
7885	246.73	58.07	148.75		94.13
21458	229.64	104.63			94.13
2069	689.12	145.53			94.13
3584	65.13	35.08			94.13
968	966.61	265.81			94.04
9525	27.97	21.00			94.04
8757	250.38	72.47			94.00
9768	711.98	179.77			94.00
392	29.06	15.76			94.00
0267	2119.14	891.88			94.00
23190	70.87	28.52			93.96
5676	218.79	80.22	97.09	19.62	93.96

	BB: SUFLADIAZI 10(s): 24 Inrs	NE .	Augy l		44.921-5089W0
Identifier	idenioxivean	Il Nonthewson	III (ON WOOD)	000	. No. 1798397.1
13158	1464.71	105.53	185.18	111.81	199.83
2010	31.95	1313.46	1578.42	46.88	99.79
15535	445.86	80.88	792.83	41.28	199.74
1564	34.77	147.30	1395.56	106.27	99.70
4452	989.99	248.64	328.14	443.97	199.70
4450	282.32	50.39	113.73	16.34	199.61
20700	81.27	404.57	1604.45	209.39	99.61
20481	208.68	44.26	81.56	17.25	199.57
25686	666,44	155.98	1348.56	47.39	199.53
5695	1559.28	402.43	636.16	43.80	199.53
6477	13.20	160.91	187.40	49.13	199.53
17101	352.23	77.89	621.28	16.27	99.49
15175	318.83	49.56	153.62	12.70	99.49
20699	90.33	220.48	1192.64	109.71	199.49
6478	22.55	383.52	1251.88	88.78	199.44
725	117.71	45.62	14.15	12.76	99.44
645	151.16	54.99	17.82	6.85	99.44
3987	192.50	47.15	465.13	55.22	99.44
21947	752.67	136.25	319.39	29.30	99.44
17291	1389.57	412.30	482.86	101.58	99.40
238	227.68	151.22	496.72	69.45	
20887	794.18	312.69	103.79	42.68	199.36 199.36
1558	203.57	58.77	553.28	64.74	
17661	255.29	58.73	540.05		99.36
16947	320.42	79.17	77.47	70.79	99.36
6204	752.56	177.92	1702.82	19.86	99.36
8906	255.45	83.89	55.16	145.45	99.36
7357	269.77	81.23		8.36	99.36
7514	1859.90	174.50	2.53	12.73	99.31
6416	22.83	18.51	359.55 84.23	37.03	99.31
2085	688.34	191.75		3.30	99.27
7101	380.51	644.25	339.59 3330.36	20.82	99.27
8278	1896.72	507.81	639.93	683.13	99.27
25718	392.38	80.21		108.91	99.27
1478	352.30	79.44	851,19 88,92	103.08	199.23
621	292.01	59.49	563.88	22.22	99.23
3596	1491.59	375.55		51.66	99.23
0884	637.92	258.49	487.23	90.69	99.23
0016	207.78	73.01	19.93	9.59	99.23
665	282.42	91.44	590.63 861.31	39.54	99.23
72	661.53	177.31		113.78	99.19
8597	521.43		345.51	23.33	99.19
222	545.41		914.02	31.92	99.19
0886		102.20	1014.25	79.67	99.19
884	719.84 178.24		50.84	41.81	99.19
422			331.54	22.95	99.19
7104	297.77		75.68	10.49	99.19
	449.21		1060.31	149.95	99.14
7907 7284	1319.66		623.40	49.85	99.14
7284 981			77.02	16.01	99.14
			716.17	136.32	99.14
451			76.77		99.14
5955					99.10
6419					99.10
6627					99.10
2592					99.10
9824	224.78	67.21	32.81	20.42	99.10

	333: SUFLADIV nysh: 24 hrs	Catrice.	Allegy		. 449221-5039W c. Mo. 1798397
dentifie	nujeji 240 ilus 7. ilkienijoskijaa	n lyonnoxsp	/ IllioxMean	10000000	<u>5. (00)</u> 1 //8038//
9905	674.04	138.26	279.49	36.23	99.10
15002	139.13	94.64	580.42	172.97	99.10
812	157.04	34.99	39.35	14.07	99.10
15193	172.71	160.15	463.80	40.10	99.10
11205	596.04	192.04	155.98	25.86	99.10
17535	246.41	64.45	529.14	76.63	99.06
4360	330.80	65.83	138.60	23.78	99.06
5667	742.84	172.36	1513.63	1136.63	99.06
20056	309.09	59.92	81.20	26.34	99.06
11081	352.98	1113.10	740.48	49.43	99.06
3916	738.87	186.54	212.10	43.88	99.06
1801	97.49	29.02	212.29	21.51	99.06
25317	15.28	68.43	72.14	39.26	99.06
24501	524.69	114.42	955.66	63.01	99.06
19508	100.97	41.09	111.48	5.01	99.06
19769	63.82	80.07	1487.54	129.83	99.01
25546	473.54	139.58	193.05	34.65	199.01
10878	951.05	250.12	1714 95	105.09	99.01
10819	1183.30	358.76	2036.62	53.76	199.01
18507	701.19	159.97	1396.26	108.52	98.97
2915	87.36	36.13	206.79	19.36	98.97
15003	34.41	91.73	507.05	83.25	98.97
2583	369.08	148.55	848.08	90.80	98.97
9620	529.25	1111.98	1071.29	125.35	98.97
19298	364.57	96.71	819.01	116.31	98.97
6614	478.70	150.19	97.33	35.20	98.97
15986	320.13	183.84	46.97	124.78	98.97
13646	727.39	191.95	1634.83	174.87	198.93
240	184.44	53.70	394.90	58.94	98.93
16675	33.18	31.66	226.87	74.32	98.93
11968	297.46	82.47	94.28	117.16	98.93
7540	561.49	199.04	1593.99	230.39	198.93
19161	1068.85	309.26	2020.78	120.96	98.93
23924	208.78	62.50	465.78	53.25	98.93
1482	227.17	73.35	167.19	17.67	98.93
5199	611.50	182.04	158.54	39.19	98.93
117	21.06	17.59	-12.77	12.61	98.89
22536	1715.17	473.49	3319.42	278.50	98.89
7100	819.32	235.74	1519.10	85.28	98.89
14332	537.23	133.39	11143.62	152.21	98.89
232	365.72	93.58	160.50	9.58	98.89
10561	78.49	36.71	188.47	14.45	98.89
5098	185.41	66.49	132.78	6.96	98.89
3401	14.24	21.17	144.41	152.94	98.89

TABLE SC	C: Sulfadiazi 1911: 3.6 his	NE.	AMy, De	ocket No. 4	X921-5069XXC
	NonToxMean	-	Million (Vloor)		<u>No. 1798397.1</u>   LDAScore
2459	327.82	133.31			
985	18.91	23.49	1186.99	180.16	99.44
6054	24.46	35.46	463.67	144.11	99.36
21546	1-60.81	78.07	461.08	144.11	99.18 199.14
11259	101.27	105.67	1117.26	304.40	99.05
223	110.81	16.39	121.57	31.76	99.05
13745	27.17	26.30	236.39	104.08	99.05
8304	263.66	68.46	104.04	18.52	99.05
2154	54.19	102.13	766.15	271.93	98.93
6585	635.65	314.22	2778.88	622.70	98.80
17506	33.02	28.55	170.00	54.28	98.80
2153	179.20	124.41	1217.91	474.19	98.75
23872	47.29	87.73	387.10	112.60	98.71
15301	35.41	55.60	466.69	146.16	98.67
15192	164.68	117.96	858.98	208.00	98.67
17327 15300	209.40	86.17	531.34	65.50	98.62
7700	131.96	108.91	967.46	264.07	98.62
13930	80.97 128.33	38.43	377.20	103.65	98.58
10659	128.90	69.33 79.62	520.74	123.87	98.54
7197	195.08	78.35	602.71 557.25	192.55	98.54
19060	150.81	79.81	399.19	113.13	198.37 198.32
15299	86.11	152.88	422.06	161.10	198.28
355	10.95	13.39	102.92	40.18	98.28
7196	178.85	80.11	517.52	181.96	198.28
25730	196.00	64.30	513.70	106.95	98.24
5356	-12.88	18.58	46.77	19.05	98.19
19657	3.19	17.88	84.23	34.61	98.15
25084	-12.38	22.65	46.65	25.44	98.11
1501	58.67	53.51	250.18	120.56	98.02
17908	62.13	58.89	240.27	66.39	97.98
16314	43.27	38.63	240.75	61.16	97.94
2555	95.85	44.10	292.92	71.25	97.94
21682	-35.82	31.41	50.22	26.54	97.89
5384	40.19	41.73	218.67	41.90	97.89
22626	83.22	71.71	465.98	192.17	97.85
11483		44.10	197.71	47.03	97.85
1045		93.51 47.19	658.28	200.15	97.81
304		182.83	244.15	46.42	97.81
3874		60.25	934.61 305.67	83.33	97.76
23314		247.80	1403.77	73.98 543.62	97.76 97.76
21		31.90		47.41	97.76
2681		182.12	981.97	310.38	97.72
471		63.97	421.52	40.74	97.72
3240		362.91		790.75	97.68
340		49.81		15.13	97.64
6312	54.74	33.76		42.24	97.59
1876	107.52	40.42		40.07	97.46
0161	38.17	33.28		32.80	97.46
	49.41	38.61		42.38	97.42
2978		45.80		95.16	97.42
		26.28	132.84	24.19	97.38
		36.00			97.38
1779	147.51	35.16			97.29

Timepoint(s): 3, 6 furs Doc. No. 179333 Identifier NouttoxMean NonticxSD ToxMean ToxSD DAScor						
ldentifier						
11979	210.67	69.55	185.98	17.52	97.25	
17161	1152.09	406.69	2288.34	334.10	97.25	
11434	326.14	103.27	663.21	132.01	97.12	
6844	124.34	58.18	17.91	11.06	97.12	
22	53.08	46.64	206.89	59.81	97.12	
3464	165.60	53.31	329.80	63.59	97.08	
3434	322.01	136.13	755.72	108.22	97.08	
22248	243.91	118.15	625.27	179.46	97.03	
9423	937.34	251.31	1765.27	274.26	197.03	
21683	34.05	23.48	105.62	26.60	96.95	
16527	51.16	16.84	24.15	3.25	96.90	
4512	1.04	32.53	73.93	19.11	96.86	
4725	81.40	55.94	245.03	66.25	96.78	
21239	114.57	59.35	256,57	37.93	96.78	
17329	213.88	104.30	531.44	105.41	96.65	
13467	137.67	24.44	111.98	36.67	96.56	
15089	179.58	77.35	389.68	58.33	96.56	
3454	86.52	35.67	198.35	31.79	196.47	
20523	547.69	149.96	965.84	112.80	96.43	
15058	197.84	70.39	377.22	46.94	96.35	
14492	613.89	164.78	1076,44	162.75	96.35	
12999	128.09	33.18	203.14	17.45	96.30	
22967	163.84	54.49	255.51	13.19	96.26	
18008	1.51	16.75	42.22	112.38	96.26	
24640	177.45	57.95	357.46	73.86	96.26	
7913	55.20	20.69	108.16	18.70	96.17	
2625	141.92	31.66	87.09	9.03	96.17	
3049	201.89	100.36	461.30	105.24	96.17	
18011	31.95	28.60	105.17	25.57	96.13	
23834	71.40	23.40	137.38	25.69	96.09	
19818	132.37	21.21	85.97	15.20	96.04	
12673	37.51	22.58	99.74	25.41	196.04	
15377	25.91	15.53	56.38	6.78	96.00	
12745	330.67	112.37	623.69	81.74	96.00	
14111	150.33	66.27	327.97	47.79	96.00	
11157	1681.75	178.91	356.49	80.44	196.00	
23166	134.04	62.51	266.66	54.48	195.96	
3519	1375.54	1125.21	1690.15	176.36	95.96	
16124	420.65	131.40	193.12	32.21	95.87	
17800	204.49	42.25	108.97	122.01	95.83	
8639	368.08	97.97	620.44			
25090				125.57	95.79	
25090 15191	83.00	43.32 1208.87	203.07	48.58	95.79	
15191 7469	2005.55		3819.43	343.39	95.74	
	286.95	67.51	149.39	36.61	95.70	
21238	-17.22	39.01	55.57	120.45	195.70	

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WE CLAIM:

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- 1. A method of predicting at least one toxic effect of a compound, comprising:
- (a) preparing a gene expression profile of a tissue or cell sample exposed to the compound; and
- (b) comparing the gene expression profile to a database comprising at least part of the data or information of Tables 1-5.
  - A method of claim 1, wherein the gene expression profile prepared from the tissue or cell sample comprises the level of expression for at least one gene.
  - A method of claim 2, wherein the level of expression is compared to a Tox Mean and/or NonTox Mean value in Tables 5-5CC.
- A method of claim 3, wherein the level of expression is normalized prior to
   comparison.
  - A method of claim 1, wherein the database comprises substantially all of the data
    or information in Tables 5-5CC.
- 20 6. A method of predicting at least one toxic effect of a compound, comprising:
  - (a) detecting the level of expression in a tissue or cell sample exposed to the compound of two or more genes from Tables 1-5; wherein differential expression of the genes in Tables 1-5 is indicative of at least one toxic effect.
- 25 7. A method of predicting the progression of a toxic effect of a compound, comprising:
  - (a) detecting the level of expression in a tissue or cell sample exposed to the compound of two or more genes from Tables 1-5; wherein differential expression of the genes in Tables 1-5 is indicative of toxicity progression.
- A method of predicting the renal toxicity of a compound, comprising:
  - (a) detecting the level of expression in a tissue or cell sample exposed to the

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compound of two or more genes from Tables 1-5; wherein differential expression of the genes in Tables 1-5 is indicative of renal toxicity.

- A method of identifying an agent that modulates the onset or progression of a toxic response, comprising:
  - (a) exposing a cell to the agent and a known toxin; and
  - (b) detecting the expression level of two or more genes from Tables 1-5; wherein differential expression of the genes in Tables 1-5 is indicative of toxicity.
- 10 10. A method of predicting the cellular pathways that a compound modulates in a cell, comprising:
  - (a) detecting the level of expression in a tissue or cell sample exposed to the compound of two or more genes from Tables 1-5; wherein differential expression of the genes in Tables 1-5 is associated the modulation of at least one cellular pathway.

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- 11. The method of any one of claims 6-10, wherein the expression levels of at least 3 genes are detected.
- 12. The method of any one of claims 6-10, wherein the expression levels of at least 4 genes are detected.
  - 13. The method of any one of claims 6-10, wherein the expression levels of at least 5 genes are detected.
- 25 14. The method of any one of claims 6-10, wherein the expression levels of at least 6 genes are detected.
  - 15. The method of any one of claims 6-10, wherein the expression levels of at least 7 genes are detected.

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16. The method of any one of claims 6-10, wherein the expression levels of at least 8 genes are detected.

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- 17. The method of any one of claims 6-10, wherein the expression levels of at least 9 genes are detected.
- 5 18. The method of any one of claims 6-10, wherein the expression levels of at least 10 genes are detected.
  - 19. A method of claim 6 or 7, wherein the effect is selected from the group consisting of nephritis, kidney necrosis, glomerular and tubular injury, and focal segmental glomerulosclerosis.

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20. A method of claim 8, wherein the renal toxicity is associated with at least one kidney disease pathology selected from the group consisting of nephritis, kidney necrosis, glomerular and tubular injury, and focal segmental glomerulosclerosis.

21. A method of claim 10, wherein the cellular pathway is modulated by a toxin selected from the group consisting of cephaloridine, cisplatin, puromycin aminonucleoside (PAN), bromoethylamine hydrobromide (BEA), gentamicin, ifosfamide, cyclophosphamide, carboplatin, AY-25329, indomethacin, acyclovir, citrinin, mercuric chloride, diflunisal, cidofovir, pamidronate, lithium, hydralazine, colchicine, sulfadiazine, and adriamycin.

- A set of at least two probes, wherein each of the probes comprises a sequence that specifically hybridizes to a gene in Tables 1-5.
- A set of probes according to claim 22, wherein the set comprises probes that hybridize to at least 3 genes.
- A set of probes according to claim 22, wherein the set comprises probes that
   hybridize to at least 5 genes.
  - 25. A set of probes according to claim 22, wherein the set comprises probes that

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hybridize to at least 7 genes.

26. A set of probes according to claim 22, wherein the set comprises probes that hybridize to at least 10 genes.

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- 27. A set of probes according to any one of claims 22-26, wherein the probes are attached to a solid support.
- A set of probes according to claim 27, wherein the solid support is selected from
   the group consisting of a membrane, a glass support and a silicon support.
  - A solid support comprising at least two probes, wherein each of the probes comprises a sequence that specifically hybridizes to a gene in Tables 1-5.
- 15 30. A solid support of claim 29, wherein the solid support is an array comprising at least 10 different oligonucleotides in discrete locations per square centimeter.
  - 31. A solid support of claim 29, wherein the array comprises at least about 100 different oligonucleotides in discrete locations per square centimeter.

- 32. A solid support of claim 29, wherein the array comprises at least about 1000 different oligonucleotides in discrete locations per square centimeter.
- 33. A solid support of claim 29, wherein the array comprises at least about 10,000
   different oligonucleotides in discrete locations per square centimeter.
  - 34. A computer system comprising:
- (a) a database containing information identifying the expression level in a tissue or cell sample exposed to a renal toxin of a set of genes comprising at least two 30 genes in Tables 1-5; and
  - (b) a user interface to view the information.

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- A computer system of claim 34, wherein the database further comprises sequence information for the genes.
- A computer system of claim 34, wherein the database further comprises
- 5 information identifying the expression level for the set of genes in the tissue or cell sample before exposure to a renal toxin.
- 37. A computer system of claim 34, wherein the database further comprises information identifying the expression level of the set of genes in a tissue or cell sample exposed to at least a second renal toxin.
  - 38. A computer system of any of claims 34-37, further comprising records including descriptive information from an external database, which information correlates said genes to records in the external database.

A computer system of claim 38, wherein the external database is GenBank.

- A method of using a computer system of any one of claims 34-37 to present information identifying the expression level in a tissue or cell of at least one gene in
   Tables 1-5, comprising:
  - comparing the expression level of at least one gene in Tables 1-5 in a tissue or cell exposed to a test agent to the level of expression of the gene in the database.
- A method of claim 40, wherein the expression levels of at least two genes are
   compared.
  - A method of claim 40, wherein the expression levels of at least five genes are compared.
- 30 43. A method of claim 40, wherein the expression levels of at least ten genes are compared.

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- 44. A method of claim 40, further comprising the step of displaying the level of expression of at least one gene in the tissue or cell sample compared to the expression level when exposed to a toxin.
- 5 45. A method of claim 9, wherein the known toxin is a renal toxin.
  - 46. A method of claim 42, wherein the renal toxin is selected from the group consisting of cephaloridine, cisplatin, puromycin aminonucleoside (PAN), bromoethylamine hydrobromide (BEA), gentamicin, ifosfamide, cyclophosphamide, carboplatin, AY-25329, indomethacin, acyclovir, citrinin, mercuric chloride, diflunisal, cidofovir, pamidronate, lithium, hydralazine, colchicine, sulfadiazine, and adriamycin.
  - 47. A method of any one of claims 6-10, wherein nearly all of the genes in Tables 1-5 are detected.

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- A method of claim 47, wherein all of the genes in at least one of Tables 5-5CC are detected.
- A kit comprising at least one solid support of any one of claims 29-33 packaged
   with gene expression information for said genes.
  - 50. A kit of claim 49, wherein the gene expression information comprises gene expression levels in a tissue or cell sample exposed to a renal toxin.
- 25 51. A kit of claim 50, wherein the gene expression information is in an electronic format.
  - A method of any one of claims 6-10, wherein the compound exposure is in vivo or in vitro.

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53. A method of any one of claims 6-10, wherein the level of expression is detected by an amplification or hybridization assay.

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- 54. A method of claim 53, wherein the amplification assay is quantitative or semiquantitative PCR.
- 5 55. A method of claim 53, wherein the hybridization assay is selected from the group consisting of Northern blot, dot or slot blot, nuclease protection and microarray assays.
  - 56. A method of identifying an agent that modulates at least one activity of a protein encoded by a gene in Tables 1-5 comprising:
- (a) exposing the protein to the agent; and
  - (b) assaying at least one activity of said protein.
  - 57. A method of claim 56, wherein the agent is exposed to a cell expressing the protein.

- 58. A method of claim 57, wherein the cell is exposed to a known toxin.
- 59. A method of claim 58 wherein the toxin modulates the expression of the protein.